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A STUDY OF SCHOOL DISTRICT # 100 FOURTH AND FIFTH GRADE COMPUTER LITERACY CURRICULUM

by

Charles S. Saunders

A Thesis Submitted to the Faculty of the Graduate School of Loyola University of Chicago in Partial Fulfillment of the Requirements for the Degree of

Master of Arts

December

1988

ACKNOWLEDGEMENTS

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VTTA

The author, Charles Spencer Saunders, is the adopted son of Ernest William Saunders and Verina (Rogers) Saunders. He was born November 11, 1953, in Flushing, New York.

His elementary education was obtained in the public schools of Evanston, Illinois. His secondary education was obtained at Evanston Township High School, Evanston, Illinois, and the American Community School, Inc., Athens, Greece.

In August, 1972, Mr. Saunders entered the University of Wisconsin - Stout, receiving the degree of Bachelor of Science in Industrial Education in 1978.

Mr. Saunders has been teaching 7th and 8th Grade Industrial Arts at School District #100 for the past eleven years. In 1986, he taught 4th and 5th Grade Computer Literacy at the three upper grade centers of School District #100.

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INTRODUCTION

In 1984-85, School District #100 organized a committee of ten staff members, of which I was not a member, to write the district's first Curriculum Guide for the Computer Literacy Program. The guide contained the philosophy and goals, how to maintain computer equipment, ideas for lessons, a list of programs, reading material and a glossary of terms.

In 1986, I was engaged to teach the Fourth and Fifth Grade Computer Literacy classes. The portion of the curriculum guide containing the classroom material that had been created during the first two years was given to me to review during the summer. I began teaching the Computer Literacy classes using this classroom material. In the course of this experience, it became apparent that there was a need to develop a curriculum in order to improve the effectiveness of the Computer Literacy Program.

It was necessary to have a curriculum that would meet the needs of the students being taught, both the slow or uninterested, as well as the quick or highly motivated students. I discussed with some of the Fourth and Fifth Grade teachers, their ideas on

updating and expanding the curriculum and on incorporating activities appropriate for these grade levels. With their suggestions I created the Fourth and Fifth Grade Computer Literacy Curriculum contained within. As with any curriculum, this is intended to be a tool for a teacher who adjusts it to correspond to the level of the class and who adds to it as experience dictates.

Following the curriculum is a study critiquing the old and the new on the bases of form and content and an evaluation of students' scores under the old and new curricula.

BASIC CONSIDERATIONS FOR REVISIONS

In September of 1986, I began teaching the Fourth and Fifth Grade students Computer Literacy. There was a need for daily lesson plans for the teacher, quizzes, student worksheets, teacher's copy of the student worksheets, and supplemental worksheets relating to the skills covered that day. It was important to identify the skills to be taught and the order in which they should be taught. There was a need for consistency in the curriculum itself and in the curriculum used throughout the district.

The classroom material suggested that each student do his/her own typing of the programs and/or assignments. This leaves one student at each computer with nothing to do but to wait for his/her turn on the computer and to possibly become a discipline problem. Additionally, because of the limitations of 30-minute class periods and the time required for the students to perform this process, this requirement proved tedious and unmotivating. As the year progressed a different teaching method was tried: having the students do the hands-on work in pairs. While the students shared the typing of programs and the completion of worksheets, it

was stressed that the quizzes, which reviewed the skills taught while using the computer, were the major elements by which the teacher would evaluate each student's achievements. This made it important for the students to study/review the worksheets given to them.

Another problem was that the room in which the computer classes were set up did not allow the privacy for students to take quizzes. With the cooperation and flexibility of the Fourth and Fifth Grade teachers. I began giving the students a quiz for 10 minutes in their regular classroom before taking the groups to the computer room. This process resulted in two benefits to the computer curriculum. First, the class began with better behavior because the students had to work individually on the quiz in the structure of the regular classroom setting, and second, the computers were not present to distract the students from concentrating on the quiz. This organization of the teaching activities helped a great deal in providing the structure for the students to participate and demonstrate mastery in the activities taught, while helping the instructor get some individual work product in the form of worksheets or quizzes from each student.

Finally, it was important to have enough daily

material in each lesson plan to meet the needs of every student, the high achiever as well as the average achiever. Any extra credit materials for a given day reemphasize the skills stressed that day, although on occasion they touch on the next day's lesson. It was important to have these and all other worksheets labeled properly so the teacher would know what skills each worksheet would be emphasizing and how to score the work.

I believe that this curriculum will be very helpful in teaching Fourth and Fifth Grade students some computer programming skills and also in satisfying the ten daily goals which the school district wanted to be accomplished and which are incorporated in each curriculum.

DISTRICT 100 FOURTH GRADE COMPUTER CURRICULUM

CHARLES S. SAUNDERS
SUMMER OF 1987

OBJECTIVES FOR THE FOURTH GRADE COMPUTER CLASSES

- DAY 1: THE STUDENTS WILL REVIEW AND LEARN THE NAMES OF THE PARTS AND OPERATING PROCEDURES OF A COMMODORE COMPUTER. THE STUDENTS WILL LEARN HOW TO USE THE CLR-HOME AND SHIFT/CLR-HOME COMMANDS AND BE PREPARED FOR A QUIZ ON DAY 2.
- DAY 2: THE STUDENTS WILL LEARN WHAT A RESERVED WORD AND A PROGRAM ARE. THE STUDENTS WILL LEARN THE TERMS: "REM", "NEW", "PRINT", "RUN", AND LINE NUMBER; AND BE PREPARED FOR A QUIZ ON DAY 3.
- DAY 3: THE STUDENTS WILL LEARN THE TERMS: "LIST", "END", DISK DRIVE, MEMORY AND CPU; AND BE PREPARED FOR A QUIZ ON DAY 4.
- DAY 4: THE STUDENTS WILL LEARN AND PRACTICE PROGRAMMING SKILLS BY ENTERING SOME PROGRAMS GIVEN TO THEM AND CREATING SOME PROGRAMS OF THEIR OWN. THE STUDENTS WILL BE PREPARED FOR A TEST ON DAY 5.
- DAY 5: THE STUDENTS WILL REVIEW WITH THE TEACHER THE COMPUTER PROGRAMMING SKILLS AND TAKE A TEST. THE STUDENTS WILL BE GIVEN THE INSTRUCTIONS FOR THE GRAPHICS PROGRAMS THAT THE STUDENTS WILL BE LEARNING DURING THE NEXT WEEK.
- DAY 6: THE STUDENTS WILL LEARN THE TERMS NECESSARY TO CREATE GRAPHICS PROGRAMS, LEARN HOW TO USE THE CONTROL KEYS TO ENTER COLOR COMMANDS, AND BE PREPARED FOR A QUIZ ON DAY 7.
- DAY 7: THE STUDENTS WILL WORK ON A GRAPHICS PROGRAM CALLED HELLO AND BE PREPARED FOR A TEST ON DAY 10. OPTIONAL: THE STUDENTS WILL LEARN HOW TO USE A DISK DRIVE.
- DAY 8: THE STUDENTS WILL WORK ON A GRAPHICS PROGRAM CALLED <u>CLOWN</u> AND BE PREPARED FOR A TEST ON DAY 10. OPTIONAL: THE STUDENTS WILL LEARN HOW TO USE A DISK DRIVE.
- DAY 9: THE STUDENTS WILL WORK ON A GRAPHICS PROGRAM CALLED <u>PUPPY</u> AND BE PREPARED FOR A TEST ON DAY 10. OPTIONAL: THE STUDENTS WILL LEARN HOW TO USE A DISK DRIVE.
- DAY 10: THE STUDENTS WILL REVIEW WITH THE TEACHER THE COMPUTER PROGRAMMING SKILLS AND TAKE A TEST.

DAILY GOALS

DAY	TERMS	RESERVED WORDS OR COMMANDS	STUDENT ACTIVITIES
1	COMPUTER MONITOR KEYBOARD CURSOR BASIC	CLR-HOME SHIFT/CLR-HOME	TURN COMPUTER ON/OFF MOVE CURSOR HOME ERASE SCREEN LEARN WHERE KEYS ARE
2	RESERVED WORD PROGRAM LINE NUMBER SYNTAX ERROR	NEW REM PRINT RUN	QUIZ ENTER PRINT STATEMENTS RUN A PROGRAM
3	DISK DRIVE MEMORY CPU	LIST END	QUIZ ENTER A SCRAMBLED PROGRAM LIST A PROGRAM RUN A PROGRAM
4	NONE	NONE	QUIZ RECOGNIZE THE DIFFERENCE BETWEEN A PROGRAM AND THE OUTPUT OF A PROGRAM
5	NONE	NONE	TEST

DAY	TERMS	RESERVED WORDS OR COMMANDS	STUDENT ACTIVITIES
6	CONTROL KEYS FOR COLOR GRAPHICS	REVERSE ON REVERSE OFF	LEARN HOW TO USE THE CONTROL KEYS FOR COLOR GRAPHICS LEARN HOW TO DUPLICATE A LINE OF PROGRAMMING
7	NONE	NONE	QUIZ ENTER GRAPHICS PROGRAMS
8	POKE COMMANDS	РОКЕ	ENTER GRAPHICS PROGRAMS
9	NONE	NONE	ENTER GRAPHICS PROGRAMS
10	NONE	NONE	TEST

C. DAILY. GOALS

THE FIRST FIVE DAYS OF THE FOURTH GRADE COMPUTER CURRICULUM ARE ON SIDE ONE OF THIS DISK. THE FILES ON THE DISK ARE CATALOGUED IN THE ORDER IN WHICH THEY ARE TO BE USED. THERE IS A TEACHER'S LESSON PLAN FOR EACH DAY, ALONG WITH THE NECESSARY QUIZZES AND HANDOUTS FOR THE STUDENTS WITH A TEACHER'S VERSION OF THE SAME QUIZZES AND HANDOUTS WITH A FEW ADDITIONAL NOTES. FOR VARIETY, THERE MAY BE ONE OR TWO VERSIONS OF EACH QUIZ TO BE GIVEN TO THE STUDENTS AS OUTLINED IN THE LESSON PLANS.

AFTER THIS PAGE IN THIS MANUAL, THE FILES THAT ARE PRINTED IN THE DRAFT MODE (LIGHT) ARE FOR THE TEACHER, AND THE FILES THAT ARE PRINTED IN THE NEAR LETTER QUALITY MODE (DARK) ARE FOR THE STUDENTS.

THE DISTRICT'S COMPUTER COMMITTEE WOULD APPRECIATE HAVING CHANGES, IMPROVEMENTS AND/OR ADDITIONS TO THIS CURRICULUM DONE IN SUCH A WAY THAT THE INFORMATION STORED ON THIS DISK IS UPDATED TO BE CONSISTENT WITH THE MATERIAL BEING TAUGHT TO THE STUDENTS. BY WORKING WITH THE DISTRICT'S COMPUTER COMMITTEE THIS GOAL CAN BE ACHIEVED.

THE MATERIAL FOR DAYS SIX THROUGH TEN CAN BE FOUND ON SIDE TWO OF THE DISK.

LESSON PLAN

GRADE 4 - DAY 1 COMPUTER LITERACY TEACHER'S LESSON PLAN	
INSTRUCTIONAL AIDS: COPIES OF THE NECESSARY HANDOUTS	TOOLS, EQUIPMENT AND MATERIALS: CHALK, ERASER AND PENCILS
OBJECTIVE, INTRODUCTION, PRESENTATION, STUDENT EVALUATION, ADDITIONAL TOPIC	SUMMARY, STUDENT INVOLVEMENT,

OBJECTIVE FOR THE DAY:

THE STUDENTS WILL REVIEW AND LEARN THE NAMES OF THE PARTS AND OPERATING PROCEDURES OF A COMMODORE COMPUTER. THE STUDENTS WILL LEARN HOW TO USE THE CLR-HOME AND SHIFT/CLR-HOME COMMANDS AND BE PREPARED FOR A QUIZ ON DAY 2.

INTRODUCTION:

MOVE THE CLASS TO THE COMPUTER ROOM AND INTRODUCE YOURSELF.

PRESENTATION:

DISTRIBUTE COPIES OF:

STUDENT HANDOUT #1 (G4.D01.SH1.KB.S)
WORKSHEET #1 (G4.D01.W1.SC)

HAVE THE STUDENTS COMPLETE THE STUDENT HANDOUT #1 BY WRITING IN THE CORRECT CHARACTERS FOUND ON THE COMMODORE KEYBOARD. HAVE THE STUDENTS START IN THE UPPER LEFT HAND CORNER.

READING FROM THE TEACHER'S COPY OF WORKSHEET #1, READ THE DEFINITIONS IN ITEMS #1-7 AND EMPHASIZE THAT THE STUDENTS SHOULD STUDY THESE DEFINITIONS SOME TIME <u>BEFORE</u> THE NEXT CLASS MEETING BECAUSE THERE WILL BE A QUIZ ON THE SEVEN DEFINITIONS.

CONTINUE READING FROM THE TEACHER'S COPY OF WORKSHEET #1. YOU CAN MENTION THAT THE LANGUAGE USED IN THIS CLASS IS "BASIC" BECAUSE THE TERM "BASIC" APPEARS ON THE SCREEN WHEN YOU FIRST TURN THE COMPUTER ON. THE PURPOSE BEHIND TYPING IN THE PHRASE "CURSOR, GO HOME!" IS TWO-FOLD. ONE, IT'S TO EMPHASIZE THAT THE COMPUTER DOES NOT SPEAK IN ENGLISH AND TWO, IT'S A GOOD SENTENCE TO STRESS THE USE OF TWO HANDS WHEN TYPING! FOR THIS LESSON IT IS RECOMMENDED THAT YOU KEEP THE STUDENTS WORKING AT THE SAME TASK SO THAT THEY CAN LISTEN TO YOUR INSTRUCTIONS AS ONE LARGE GROUP.

G4. DO1. LP. TC

LESSON PLAN CONTINUED PAGE 2

GRADE 4 - DAY 1 COMPUTER LITERACY TEACHER'S LESSON PLAN	
OBJECTIVE, INTRODUCTION, PRESENTATION, SUMMARY, STUDENT I STUDENT EVALUATION, ADDITIONAL TOPIC	nvolvement,

SUMMARY:

REVIEW THE MATERIAL DISCUSSED DURING TODAY'S CLASS MEETING.

STUDENT INVOLVEMENT:

THE STUDENTS WILL BE WORKING ON A COMMODORE WITH A PARTNER.
THE STUDENTS WILL WORK TOWARD CORRECTLY COMPLETING A WORKSHEET.

STUDENT EVALUATION:

THE STUDENTS' PROGRESS ON THE WORKSHEETS SHOULD BE EVALUATED AND RECORDED ON THE BASIS OF FIVE POINTS FOR A CORRECTLY COMPLETED WORKSHEET.

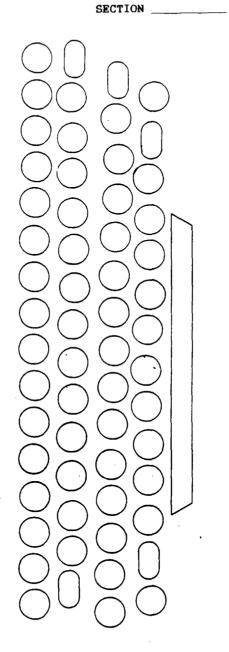
ADDITIONAL TOPIC:

IF THE STUDENTS FINISH WITH WORKSHEET #1, YOU COULD DISCUSS WITH THEM THE ERROR MESSAGE (SYNTAX ERROR) AND ASK THE QUESTIONS:

- 1. WHY DOES THE MESSAGE APPEAR? (COMPUTER LANGUAGE VS. ENGLISH)
- 2. WHAT COULD BE CHANGED TO ELIMINATE THE ERROR? (THE USE OF THE RESERVED WORD "PRINT" WITH QUOTE MARKS AROUND THE PHRASE WILL ELIMINATE THE ERROR. SOME STUDENTS MAY KNOW THIS FROM OUTSIDE EXPERIENCE. THIS WILL BE COVERED IN SUBSEQUENT LESSONS.)

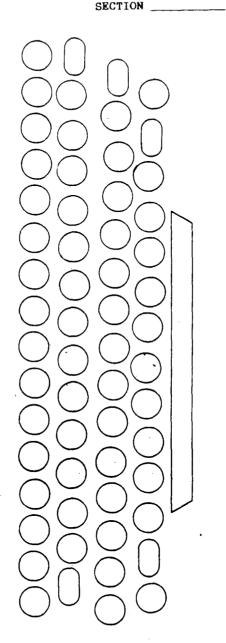
CHECK THAT ALL COMPUTERS, MONITORS AND DISK DRIVES ARE TURNED OFF.

GRADE 4 - DAY 1
COMPUTER LITERACY
STUDENT HANDOUT #1
KEYBOARD
STUDENT'S COPY



GRADE 4 - DAY 1 COMPUTER LITERACY STUDENT HANDOUT #1 KEYBOARD TEACHER'S COPY

NAME	



GRADE 4 - DAY 1	NAME	15
COMPUTER LITERACY	NAME	
WORKSHEET 1	SECTION	
STUDENT'S COPY	DEGITOR	

DEFINITIONS:

- 1. A COMPUTER IS A MACHINE WHICH PERFORMS TASKS AT A HIGH SPEED WITH GREAT ACCURACY.
- 2 THE MONITOR IS A T.V.-LIKE UNIT CONNECTED TO PART OF THE COMPUTER SYSTEM
- 3. THE KEYBOARD IS A DEVICE WITH KEYS USED TO INPUT INFORMATION INTO THE COMPUTER SYSTEM.
- 4. THE CURSOR IS THE LITTLE SQUARE THAT MOVES ALONG THE SCREEN SHOWING WHERE THE NEXT LETTER YOU TYPE WILL GO.
- 5 THE NAME OF THE COMPUTER LANGUAGE USED IN THIS CLASS IS "BASIC".
- 6 THE CLR-HOME KEY, WHEN USED BY ITSELF, ONLY SENDS THE CURSOR TO THE UPPER LEFT HAND CORNER OF THE SCREEN
- 7. THE SHIFT KEY AND THE CLR-HOME KEY, WHEN USED TOGETHER, CLEARS THE SCREEN AND SENDS THE CURSOR TO THE UPPER LEFT HAND CORNER OF THE SCREEN.

HOW TO GET STARTED:

LISTEN TO THE TEACHER'S INSTRUCTIONS.

TYPING:

TYPE IN THE FOLLOWING PHRASE:

CURSOR, GO HOME !

PRESS THE RETURN KEY ONCE. (DO NOT WORRY ABOUT THE MESSAGE.)

THE CURSOR'S HOME IS IN THE UPPER LEFT HAND CORNER OF THE SCREEN. FIND THE KEY MARKED CLR-BOME AND WATCH THE SCREEN AS YOU PRESS IT. THE CURSOR JUMPS TO THE HOME POSITION.

ERASING THE SCREEN:

LISTEN TO THE TRACHER'S INSTRUCTIONS.

IT TAKES TWO KEYS HELD DOWN TOGETHER TO ERASE THE SCREEN. HOLD DOWN ONE OF THE SHIFT KEYS AND PRESS THE CLR-HOME KEY AND WATCH THE SCREEN. THE SCREEN IS ERASED AND THE CURSOR GOES TO THE HOME POSITION.

TYPING SOME MORE:

TYPE IN THE FOLLOWING PHRASE: HELLO, MY NAME IS <PUT YOUR NAME HERE> PRESS THE RETURN KEY ONCE. (DO NOT WORRY ABOUT THE MESSAGE.)

TAKING TURNS, TYPE IN PHRASES TELLING ME WHAT SCHOOL YOU ATTEND, WHO YOUR HOMEROOM TEACHER IS, ETC...

SHOW YOUR PHRASES TO THE TEACHER BEFORE ERASING THE SCREEN. TURN OFF THE COMPUTER. THANK YOU. STUDY FOR THE QUIZ, TOMORROW!

G4.D01.W1.SC

GRADE 4 - DAY 1
COMPUTER LITERACY
WORKSHEET 1
TEACHER'S COPY

NAME		10
SECT	ION	

DEFINITIONS:

1. A COMPUTER IS A MACHINE WHICH PERFORMS TASKS AT A HIGH SPEED WITH GREAT ACCURACY.

2. THE MONITOR IS A T.V.-LIKE UNIT CONNECTED TO PART OF THE COMPUTER SYSTEM.

3. THE KEYBOARD IS A DEVICE WITH KEYS USED TO INPUT INFORMATION INTO THE COMPUTER SYSTEM.

THE CURSOR IS THE LITTLE SQUARE THAT MOVES ALONG THE SCREEN SHOWING WHERE THE NEXT LETTER YOU TYPE WILL GO.

5. THE NAME OF THE COMPUTER LANGUAGE USED IN THIS CLASS IS "BASIC"

6. THE CLR-HOME KEY, WHEN USED BY ITSELF, ONLY SENDS THE CURSOR TO THE UPPER LEFT HAND CORNER OF THE SCREEN.

7 THE SHIFT KEY AND THE CLR-HOME KEY, WHEN USED TOGETHER, CLEARS THE SCREEN AND SENDS THE CURSOR TO THE UPPER LEFT HAND CORNER OF THE SCREEN

HOW TO GET STARTED:

FOLLOWING THE TEACHER'S INSTRUCTIONS, TURN YOUR COMPUTER AND MONITOR ON . YOU WILL SEE A MESSAGE ON THE SCREEN. THE LAST WORD IS "READY". BELOW "READY" IS A FLASHING SQUARE. THIS SQUARE IS CALLED THE "CURSOR". WHEN YOU SEE IT FLASHING, IT MEANS THE COMPUTER IS READY FOR YOU TO TYPE SOMETHING IN.

TYPING:

THE STUDENT SITTING ON THE LEFT, TYPE IN THE FOLLOWING PHRASE: CURSOR, GO HOME ! PRESS THE RETURN KEY ONCE. (DO NOT WORRY ABOUT THE MESSAGE.)

THE STUDENT SITTING ON THE RIGHT, TYPE IN THE SAME PHRASE. PRESS THE RETURN KEY ONCE. (DO NOT WORRY ABOUT THE MESSAGE.)

THE CURSOR'S HOME IS IN THE UPPER LEFT HAND CORNER OF THE SCREEN. FIND THE KEY MARKED CLR-HOME AND WATCH THE SCREEN AS YOU PRESS IT. THE CURSOR JUMPS TO THE HOME POSITION.

GIVING BOTH STUDENTS A CHANCE, TYPE IN SOME LETTERS AT RANDOM. YOU WILL NOTICE THAT YOU ARE WRITING OVER WHAT IS ALREADY ON THE SCREEN. THIS IS A MESS. LET'S GET A NICE CLEAN SCREEN.

ERASING THE SCREEN:

IT TAKES TWO KEYS HELD DOWN TOGETHER TO ERASE THE SCREEN. HOLD DOWN ONE OF THE SHIFT KEYS AND PRESS THE CLR-HOME KEY AND WATCH THE SCREEN. THE SCREEN IS ERASED AND THE CURSOR GOES TO THE HOME POSITION.

TYPING SOME MORE:

THE STUDENT SITTING ON THE LEFT, TYPE IN THE PHRASE: HELLO, MY NAME IS <PUT YOUR NAME HERE>. PRESS THE RETURN KEY ONCE. (DO NOT WORRY ABOUT THE MESSAGE.)

THE STUDENT SITTING ON THE RIGHT, TYPE IN THE SAME PHRASE WITH YOUR NAME. PRESS THE RETURN KEY ONCE. (DO NOT WORRY ABOUT THE MESSAGE.)

TAKING TURNS, TYPE IN PHRASES TELLING ME WHAT SCHOOL YOU ATTEND, WHO YOUR HOMEROOM TEACHER IS, ETC...

SHOW YOUR PHRASES TO THE TEACHER BEFORE ERASING THE SCREEN. TURN OFF THE COMPUTER. THANK YOU. STUDY FOR THE QUIZ, TOMORROW!

G4.D01.W1.TC

LESSON PLAN

INSTRUCTIONAL AIDS:	TOOLS, EQUIPMENT AND MATERIALS:
COPIES OF THE NECESSARY HANDOUTS AND QUIZ 1 - DAY 1	CHALK, ERASER AND PENCILS

OBJECTIVE FOR THE DAY:

THE STUDENTS WILL LEARN WHAT A RESERVED WORD AND A PROGRAM ARE. THE STUDENTS WILL LEARN THE TERMS: "REM", "NEW", "PRINT", "RUN", AND LINE NUMBER; AND BE PREPARED FOR A QUIZ ON DAY 3.

INTRODUCTION:

REVIEW WITH THE STUDENTS THE MATERIAL COVERED AT THE PREVIOUS CLASS AND GIVE A QUIZ IN THE HOMEROOM.

PRESENTATION:

DISTRIBUTE COPIES OF:

WORKSHEET #2 (2 PAGES) (G4.DO2.W2.SC)

READING FROM THE TEACHER'S COPY OF WORKSHEET #2, READ THE DEFINITIONS IN ITEMS #1-7 AND EMPHASIZE THAT THE STUDENTS SHOULD STUDY THESE DEFINITIONS SOME TIME BEFORE THE NEXT CLASS MEETING BECAUSE THERE WILL BE A QUIZ ON THE SEVEN DEFINITIONS

WHEN TALKING ABOUT THE NAME OF THE COMPUTER LANGUAGE USED IN THIS CLASS MENTION THAT ALL COMMANDS ARE NOT THE SAME FOR ANY COMPUTER.

CONTINUE READING FROM THE TEACHER'S COPY OF WORKSHEET #2. MAKE SURE THAT THE USE OF < > BRACKETS IS VERY CLEARLY UNDERSTOOD BY ALL THE STUDENTS. EXPLAIN THIS IN A LARGE GROUP AND IN SMALL GROUPS.

LESSON PLAN CONTINUED PAGE 2

GRADE 4 - DAY 2
COMPUTER LITERACY
TEACHER'S LESSON PLAN
OBJECTIVE, INTRODUCTION, PRESENTATION, SUMMARY, STUDENT INVOLVEMENT,
STUDENT EVALUATION, ADDITIONAL TOPIC

SUMMARY:

REVIEW THE MATERIAL DISCUSSED DURING TODAY'S CLASS MEETING.

STUDENT INVOLVEMENT:

THE STUDENTS WILL BE WORKING INDEPENDENTLY ON A QUIZ.
THE STUDENTS WILL BE WORKING ON A COMMODORE WITH A PARTNER.
THE STUDENTS WILL WORK TOWARD CORRECTLY COMPLETING A WORKSHEET.

STUDENT EVALUATION:

THE STUDENTS' QUIZZES WILL BE EVALUATED GIVING ONE POINT FOR EACH CORRECT ANSWER.
THE STUDENTS' PROGRESS ON THE WORKSHEETS SHOULD BE EVALUATED AND RECORDED ON THE BASIS OF FIVE POINTS FOR A CORRECTLY COMPLETED WORKSHEET.

ADDITIONAL TOPIC:

IF THE STUDENTS FINISH WITH WORKSHEET #2, YOU COULD LET THEM PROGRAM OTHER SENTENCES, DISCUSS WITH THEM THE COMPUTER'S ABILITY TO CREATE COLOR GRAPHICS OR SEE HOW MANY OF THEM CAN MAKE BARS OF DIFFERENT COLORS ON THE SCREEN.

CHECK THAT ALL COMPUTERS, MONITORS AND DISK DRIVES ARE TURNED OFF.

GRADE 4 COMPUTER	,ITERACI		NAME	19
QUIZ 1 - STUDENT'	DAY 1			
BASIC	COMPUTER		CURSOR	CLR-HOME
	KEYBOARD	MONITOR	S	HIFT/CLR-HOME
USING TH LESSON B	E WORDS ABOVE, WRITE Y THE APPROPRIATE DE	THE CORRE	CT WORD MENTI	ONED IN YESTERDAY'S
1			A MACHINE WHI RATE OF SPEED	CH PERFORMS TASKS AT A HIGH WITH GREAT ACCURACY.
2			A T.VLIKE U	NIT CONNECTED TO PART OF THE EM.
3			A DEVICE WITH INFORMATION I	KEYS USED TO INPUT NTO THE COMPUTER SYSTEM.
4				DARE THAT MOVES ALONG THE G WHERE THE NEXT LETTER YOU
5				Y; ONLY SENDS THE CURSOR TO T CORNER OF SCREEN.
6.			THE NAME OF THE CLASS.	HE COMPUTER LANGUAGE USED IN
7.			USING THESE T AND SENDS CUR	WO KEYS; CLEARS THE SCREEN SOR TO UPPER LEFT CORNER.

GRADE 4 - DAY 2 COMPUTER LITERACY QUIZ 1 - DAY 1		NAMESECTION		
TEACHER'	S COPY		SECTION	
BASIC	COMPUTER	!	CURSOR	CLR-HOME
	KEYBOARD	MONITOR	SHI	FT/CLR-HOME
USING TH LESSON B	E WORDS ABOVE, WRITE Y THE APPROPRIATE DE	THE CORRECTION:	CT WORD MENTION	NED IN YESTERDAY'S
1	COMPUTER			H PERFORMS TASKS AT A HIGH WITH GREAT ACCURACY.
2	MONITOR		A T.VLIKE UNI COMPUTER SYSTEM	IT CONNECTED TO PART OF THE
3	KEYBOARD	<i>I</i>	A DEVICE WITH FINFORMATION INT	CEYS USED TO INPUT TO THE COMPUTER SYSTEM.
4	CURSOR			ARE THAT MOVES ALONG THE WHERE THE NEXT LETTER YOU
5	CLR-HOME			ONLY SENDS THE CURSOR TO CORNER OF SCREEN.
6	BASIC		THE NAME OF THE THIS CLASS.	COMPUTER LANGUAGE USED IN
7.	SHIFT/CLR-HOME	t	JSING THESE TWO	O KEYS; CLEARS THE SCREEN

RADE 4 ~	DAY 2 LITERACY		NAME	21
OMPOTER : DUIZ 1A - STUDENT'S	DAY 1		SECTION	
BASIC	COMPUTER		CURSOR	CLR-HOME
	KEYBOARD	MONITOR	SHIFT	/CLR-HOME
SING THE ESSON BY	WORDS ABOVE, WRITE THE APPROPRIATE DEF	THE CORRECTION:	T WORD MENTIONED	IN YESTERDAY'S
		U	ISING THESE TWO KI LND SENDS CURSOR '	EYS; CLEARS THE SCREEN TO UPPER LEFT CORNER.
			THE NAME OF THE CO	OMPUTER LANGUAGE USED
		– t	SING THIS KEY; ON THE UPPER LEFT COM	NLY SENDS THE CURSOR T RNER OF SCREEN.
				THAT MOVES ALONG THE ERE THE NEXT LETTER YO
			DEVICE WITH KEYS	S USED TO INPUT THE COMPUTER SYSTEM.
		A	T.VLIKE UNIT (COMPUTER SYSTEM.	CONNECTED TO PART OF T
·				ERFORMS TASKS AT A HIG

GRADE 4 - DAY 2 COMPUTER LITERACY QUIZ 1A - DAY 1 TEACHER'S COPY			NAME	
BASI	C COMPUTE	IR .	CURSOR	CLR-HOME
	KEYBOARD	MONITOR	SHIFT	C/CLR-HOME
USING LESS	THE WORDS ABOVE, WRITON BY THE APPROPRIATE I	E THE CORREC	T WORD MENTIONED	IN YESTERDAY'S
1.	SHIFT/CLR-HOME			EYS; CLEARS THE SCREEN TO UPPER LEFT CORNER.
2.	BASIC	- T	HE NAME OF THE CHIS CLASS.	OMPUTER LANGUAGE USED IN
3.	CLR-HOME		SING THIS KEY; C HE UPPER LEFT CO	ONLY SENDS THE CURSOR TO DRNER OF SCREEN.
4.	CURSOR	S	HE LITTLE SQUARE CREEN SHOWING WE YPE GOES.	THAT MOVES ALONG THE LETTER YOU
5.	KEYBOARD			'S USED TO INPUT THE COMPUTER SYSTEM.
6.	MONITOR		T.VLIKE UNIT OMPUTER SYSTEM.	CONNECTED TO PART OF THE
7.	COMPUTER			ERFORMS TASKS AT A HIGH H GREAT ACCURACY.

GRADE 4 -	DAY 2
COMPUTER I	ITERACY
WORKSHEET	2
STUDENT'S	COPY

MAME		23
NAME		
SECT	ron	

DEFINITIONS:

- 1. A RESERVED WORD IS A WORD THAT HAS A SPECIAL MEANING AND MAKES A DIRECT STATEMENT TO THE COMPUTER. SOME RESERVED WORDS ARE USED INSIDE PROGRAMS, OTHERS ARE USED OUTSIDE PROGRAMS.
- 2. A <u>PROGRAM</u> IS A LIST OF INSTRUCTIONS FOR THE COMPUTER TO FOLLOW. ALL YOUR INSTRUCTIONS FOR THE COMPUTER MUST BE NUMBERED SO THE COMPUTER KNOWS IN WHAT ORDER TO DO THINGS.
- 3. THE RESERVED WORD "REM" COMES FROM THE WORD "REMarks". IT ALLOWS YOU TO WRITE A COMMENT. WITHOUT EFFECTING THE PROGRAM.
- 4. THE RESERVED WORD "NEW" ALLOWS FOR A NEW PROGRAM TO BE ENTERED INTO THE COMPUTER AND ERASES ANY PREVIOUS PROGRAMS IN THE COMPUTER'S MEMORY. IF YOU DO NOT TYPE IN "NEW" (AND PRESS THE RETURN KEY), YOU COULD END UP WITH A PROGRAM CONSISTING OF A COLLECTION OF OLD AND NEW PROGRAM STATEMENTS.
- 5. THE RESERVED WORD "PRINT" TELLS THE COMPUTER TO PRINT THE NUMBERS OR THE CHARACTERS YOU WANT IN YOUR PROGRAM.
- 6. THE RESERVED WORD "RUN" EXECUTES (OR CARRIES OUT) THE PROGRAM CURRENTLY IN MEMORY. THE COMPUTER ACTUALLY DOES EXACTLY WHAT YOU TOLD IT TO DO IN YOUR PROGRAM. RESULTING IN OUTPUT.
- 7. A LINE NUMBER IS A NUMBER THAT APPEARS AT THE BEGINNING OF EACH LINE OF A PROGRAM. THE COMPUTER CARRIES OUT YOUR INSTRUCTIONS STARTING WITH THE SMALLEST LINE NUMBER. IT IS RECOMMENDED THAT YOU NUMBER THE LINES BY 10'S, SUCH AS 10,20,30,ETC.... THIS ALLOWS YOU TO ADD LINES TO YOUR PROGRAM WHICH YOU MAY HAVE OMITTED. A LINE NUMBER CAN BE ANY NUMBER BETWEEN 1 AND 9999 AS LONG AS IT IS A WHOLE NUMBER.

HOW TO ENTER A LINE:

WHEN WE SAY "ENTER" WE WILL ALWAYS MEAN TO DO THESE TWO THINGS:

- 1) TYPE A LINE OF PROGRAMMING,
- 2) THEN PRESS THE "RETURN" KEY

CLEAR THE SCREEN AND ENTER THESE LINES:

- 10 PRINT "HI"
- 20 END

(THE " MARKS ARE QUOTATION MARKS. TO MAKE " MARKS, HOLD DOWN THE "SHIFT" KEY AND PRESS THE KEY WHICH HAS THE 2 AND THE " ON IT.)

(DID YOU REMEMBER TO PRESS THE "RETURN" KEY AT THE END OF EACH LINE?)

NOW LINE NUMBERS 10 AND 20 ARE IN THE COMPUTER'S MEMORY. THEY WILL STAY IN MEMORY UNTIL YOU ENTER THE "NEW" COMMAND OR UNTIL YOU TURN OFF THE COMPUTER.

GRADE 4 -	DAY	2	
COMPUTER L	.ITEF	RACY	
WORKSHEET	2 -	PAGE	2
STUDENT'S	COPY	7	

NAME	24
NATE	
SECTION	

COMMAND THE COMPUTER:

TRY THIS. ENTER THE LINE:

MY NAME IS (YOUR NAME)

AND PRESS THE "RETURN" KEY.

THE COMPUTER PRINTED

?SYNTAX ERROR READY

WHEN THE COMPUTER PRINTS "?SYNTAX ERROR", IT MEANS THE COMPUTER DID NOT UNDERSTAND YOU. THE COMPUTER UNDERSTANDS ONLY ABOUT 70 WORDS. THESE WORDS ARE KNOWN AS COMMANDS OR RESERVED WORDS. YOU NEED TO LEARN WHICH WORDS THE COMPUTER UNDERSTANDS. THREE OF THESE RESERVED WORDS ARE: "NEW", "PRINT" AND "RUN".

- 1. CLEAR THE SCREEN.
- 2. ENTER THIS SIMPLE PROGRAM:
 - 10 PRINT "THIS IS A STATEMENT"
 - 20 PRINT "TWO OR MORE STATEMENTS"
 - 30 PRINT "MAKE A SIMPLE PROGRAM!"
 - 40 END
- 3. ENTER THE RESERVED WORD: RUN
- 4. RAISE YOUR HAND TO HAVE YOUR PROGRAM CHECKED.
- 1. ENTER THE RESERVED WORD: NEW
- 2. ENTER THIS SIMPLE PROGRAM:
 - 10 PRINT "HELLO, MY NAME IS <YOUR NAME>"
 - 20 PRINT "HI AGAIN, MY NAME IS <YOUR PARTNER'S NAME>"
 - 30 PRINT "WE GO TO <NAME OF SCHOOL> SCHOOL"
 - 40 END
- 3. ENTER THE RESERVED WORD: RUN
- 4. RAISE YOUR HAND TO HAVE YOUR PROGRAM CHECKED.

GRADE 4 -	DAY	2
COMPUTER I	ITEF	LACY
WORKSHEET	2	
TEACHER'S	COPY	<i>[</i>

NAME	25
SECTION	

DEFINITIONS:

- 1. A RESERVED WORD IS A WORD THAT HAS A SPECIAL MEANING AND MAKES A DIRECT STATEMENT TO THE COMPUTER. SOME RESERVED WORDS ARE USED INSIDE PROGRAMS. OTHERS ARE USED OUTSIDE PROGRAMS
- 2. A PROGRAM IS A LIST OF INSTRUCTIONS FOR THE COMPUTER TO FOLLOW. ALL YOUR INSTRUCTIONS FOR THE COMPUTER MUST BE NUMBERED SO THE COMPUTER KNOWS IN WHAT ORDER TO DO THINGS.
- THE RESERVED WORD "REM" COMES FROM THE WORD "REMarks". IT ALLOWS YOU TO WRITE A COMMENT, WITHOUT EFFECTING THE PROGRAM.
- 4 THE RESERVED WORD "NEW" ALLOWS FOR A NEW PROGRAM TO BE ENTERED INTO THE COMPUTER AND ERASES ANY PREVIOUS PROGRAMS IN THE COMPUTER'S MEMORY. IF YOU DO NOT TYPE IN "NEW" (AND PRESS THE RETURN KEY), YOU COULD END UP WITH A PROGRAM CONSISTING OF A COLLECTION OF OLD AND NEW PROGRAM STATEMENTS.
- 5 THE RESERVED WORD "PRINT" TELLS THE COMPUTER TO PRINT THE NUMBERS OR THE
- CHARACTERS YOU WANT IN YOUR PROGRAM.
 6. THE RESERVED WORD "RUN" EXECUTES (OR CARRIES OUT) THE PROGRAM CURRENTLY IN MEMORY. THE COMPUTER ACTUALLY DOES EXACTLY WHAT YOU TOLD IT TO DO IN YOUR PROGRAM. RESULTING IN OUTPUT.
- 7. A LINE NUMBER IS A NUMBER THAT APPEARS AT THE BEGINNING OF EACH LINE OF A THE COMPUTER CARRIES OUT YOUR INSTRUCTIONS STARTING WITH THE PROGRAM. SMALLEST LINE NUMBER. IT IS RECOMMENDED THAT YOU NUMBER THE LINES BY 10'S, THIS ALLOWS YOU TO ADD LINES TO YOUR PROGRAM SUCH AS 10,20,30,ETC... WHICH YOU MAY HAVE OMITTED. A LINE NUMBER CAN BE ANY NUMBER BETWEEN 1 AND 9999 AS LONG AS IT IS A WHOLE NUMBER.

HOW TO ENTER A LINE:

WHEN WE SAY "ENTER" WE WILL ALWAYS MEAN TO DO THESE TWO THINGS:

- TYPE A LINE OF PROGRAMMING, 1)
- 2) THEN PRESS THE "RETURN" KEY

CLEAR THE SCREEN AND HAVE EACH STUDENT ENTER A LINE:

- (LINE NUMBER, RESERVED WORD, DATA) (LINE NUMBER, RESERVED WORD) PRINT "HI" 10
- END 20

TO MAKE " MARKS. HOLD DOWN THE "SHIFT" KEY (THE " MARKS ARE QUOTATION MARKS. AND PRESS THE KEY WHICH HAS THE 2 AND THE " ON IT.)

(DID YOU REMEMBER TO PRESS THE "RETURN" KEY AT THE END OF EACH LINE?)

EXPLAIN THAT THE RETURN KEY MUST BE PRESSED TO ENTER INFORMATION INTO THE COMPUTER'S MEMORY.

NOW LINE NUMBERS 10 AND 20 ARE IN THE COMPUTER'S MEMORY. THEY WILL STAY IN MEMORY UNTIL YOU ENTER THE "NEW" COMMAND OR UNTIL YOU TURN OFF THE COMPUTER.

ENTER THE RESERVED WORD "RUN" AND SEE WHAT HAPPENS.

GRADE 4 - DAY 2	
COMPUTER LITERACY	
WORKSHEET 2 - PAGE	2
TEACHER'S COPY	

MAME	20
NAME	
SECTION	•

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COMMAND THE COMPUTER:

TRY THIS. ENTER THE LINE: (EXPLAIN WHAT IS MEANT BY THE USE OF THE < > RRACKETS; INFORMATION AS TO WHAT KEYS TO USE OR DATA THAT NEEDS TO BE PUT IN)

MY NAME IS (YOUR NAME) (HAVE BOTH STUDENTS DO THIS.)

AND PRESS THE "RETURN" KEY.

THE COMPUTER PRINTED

?SYNTAX ERROR READY

WHEN THE COMPUTER PRINTS "?SYNTAX ERROR", IT MEANS THE COMPUTER DID NOT UNDERSTAND YOU. THE COMPUTER UNDERSTANDS ONLY ABOUT 70 WORDS. THESE WORDS ARE KNOWN AS COMMANDS OR RESERVED WORDS. YOU NEED TO LEARN WHICH WORDS THE COMPUTER UNDERSTANDS. THREE OF THESE RESERVED WORDS ARE: "NEW", "PRINT" AND "RUN".

- 1. CLEAR THE SCREEN.
- 2. ENTER THIS SIMPLE PROGRAM: (BOTH STUDENTS SHOULD TAKE TURNS.)
 - 10 PRINT "THIS IS A STATEMENT"
 - 20 PRINT "TWO OR MORE STATEMENTS"
 - 30 PRINT "MAKE A SIMPLE PROGRAM!"
 - 40 END
- 3. ENTER THE RESERVED WORD: RUN
- 4. RAISE YOUR HAND TO HAVE YOUR PROGRAM CHECKED.
- 1. ENTER THE RESERVED WORD: NEW
- 2. ENTER THIS SIMPLE PROGRAM:
 - 10 PRINT "HELLO. MY NAME IS <YOUR NAME>"
 - 20 PRINT "HI AGAIN, MY NAME IS (YOUR PARTNER'S NAME)"
 - 30 PRINT "WE GO TO <NAME OF SCHOOL> SCHOOL"
 - 40 END
- 3. ENTER THE RESERVED WORD: RUN
- 4. RAISE YOUR HAND TO HAVE YOUR PROGRAM CHECKED.

LESSON PLAN

TEACHER'S LESSON PLAN	
INSTRUCTIONAL AIDS:	TOOLS, EQUIPMENT AND MATERIALS:
COPIES OF THE NECESSARY HANDOUTS QUIZ 2 - DAY 2	CHALK, ERASER AND PENCILS
OBJECTIVE, INTRODUCTION, PRESENTATION STUDENT EVALUATION, ADDITIONAL TOPIC	, SUMMARY, STUDENT INVOLVEMENT,

OBJECTIVE FOR THE DAY:

THE STUDENTS WILL LEARN THE TERMS: "LIST", "END", DISK DRIVE, MEMORY AND CPU; AND BE PREPARED FOR A QUIZ ON DAY 4

INTRODUCTION:

REVIEW WITH THE STUDENTS THE MATERIAL COVERED AT THE PREVIOUS CLASS AND GIVE A QUIZ IN THE HOMEROOM.

PRESENTATION:

DISTRIBUTE COPIES OF:

WORKSHEET #3 (G4.D03.W3.SC)

READING FROM THE TEACHER'S COPY OF WORKSHEET #3, READ THE DEFINITIONS IN ITEMS #1-3 AND EMPHASIZE THAT THE STUDENTS SHOULD STUDY THESE DEFINITIONS SOME TIME BEFORE THE NEXT CLASS MEETING BECAUSE THERE WILL BE A QUIZ ON THE THREE DEFINITIONS. MAKE SURE TO DEFINE WHAT THE LETTERS "CPU" STAND FOR. (CENTRAL PROCESSING UNIT)

CONTINUE READING FROM THE TEACHER'S COPY OF WORKSHEET #3. HAVE THE STUDENTS ENTER THE APPROPRIATE PROGRAM:

PROGRAM "A" IS FOR IRVING SCHOOL
PROGRAM "B" IS FOR HIAWATHA SCHOOL
PROGRAM "C" IS FOR PERSHING SCHOOL

EMPHASIZE THAT THE PROGRAM SHOULD BE ENTERED JUST AS IT IS ON THE WORKSHEET AND THAT THE LINE NUMBERS ARE OUT OF ORDER TO DEMONSTRATE A POINT. HAVE THE STUDENTS RAISE THEIR HANDS WHEN THEY HAVE THE PROGRAM ENTERED SO YOU CAN CHECK IT. MAKE IT A POINT TO MENTION THE LANGUAGE USED TO COMMUNICATE WITH THE COMPUTER SOME TIME DURING THE LESSON. (BASIC)

G4.D03.LP.TC

LESSON PLAN CONTINUED PAGE 2

GRADE 4 - DAY 3 COMPUTER LITERACY TEACHER'S LESSON PLAN	
OBJECTIVE, INTRODUCTION, PRESENTATION, SUMMARY, STUDENT INVOLVEMENT, STUDENT EVALUATION, ADDITIONAL TOPIC	_

SUMMARY:

REVIEW THE MATERIAL DISCUSSED DURING TODAY'S CLASS MEETING.

STUDENT INVOLVEMENT:

THE STUDENTS WILL BE WORKING INDEPENDENTLY ON A QUIZ.
THE STUDENTS WILL BE WORKING ON A COMMODORE WITH A PARTNER.
THE STUDENTS WILL WORK TOWARD CORRECTLY COMPLETING A WORKSHEET.

STUDENT EVALUATION:

THE STUDENTS' QUIZZES WILL BE EVALUATED GIVING ONE POINT FOR EACH CORRECT ANSWER.

THE STUDENTS' PROGRESS ON THE WORKSHEETS SHOULD BE EVALUATED AND RECORDED ON THE BASIS OF FIVE POINTS FOR A CORRECTLY COMPLETED WORKSHEET.

ADDITIONAL TOPIC:

WHEN THE STUDENTS FINISH WITH WORKSHEET #3, THEY SHOULD HAVE A SENTENCE THAT SAYS: <NAME OF SCHOOL>SCHOOLISTHEBEST. TRY TO EXPLAIN TO THE STUDENTS THAT THE FIVE WORDS SHOULD BE SEPARATE AND THAT IF YOU USE A PRINT STATEMENT TO PRINT A LETTER, HOW COULD YOU PRINT A BLANK SPACE? THE THREE LINE NUMBERS WHERE A PRINT STATEMENT ARE NEEDED ARE BETWEEN 160-170, 180-190 AND 210-220.

CHECK THAT ALL COMPUTERS, MONITORS AND DISK DRIVES ARE TURNED OFF.

GRADE 4 - D	AY 3
COMPUTER LI	TERACY
ONT 2 - DA	Y 2
STUDENT'S C	OPY

MAME	29	
NAME		
SECTION		•

RESERVED WORD

LINE NUMBER

NEW

PRINT

PROGRAM

RUN

SYNTAX ERROR

USING THE WORDS ABOVE, WRITE THE CORRECT WORD MENTIONED IN YESTERDAY'S LESSON BY THE APPROPRIATE DEFINITION:

1.	 THE MESSAGE THE COMPUTER PRINTS WHEN IT DOES NOT UNDERSTAND YOU.
2.	 A LIST OF INSTRUCTIONS (STATEMENTS) FOR THE COMPUTER TO FOLLOW.
3	 A WORD THAT HAS A SPECIAL MEANING AND MAKES A DIRECT STATEMENT TO THE COMPUTER.
4.	 THIS WORD IS USED IN A PROGRAM TO TELL THE COMPUTER TO WRITE CHARACTERS.
5.	 IT MUST APPEAR AT THE BEGINNING OF EACH LINE OF A PROGRAM. THE COMPUTER STARTS AT THE SMALLEST ONE.
6.	 THE COMMAND THAT EXECUTES (OR CARRIES OUT) THE PROGRAM CURRENTLY IN THE COMPUTER'S MEMORY.
7.	 THE COMMAND THAT ERASES THE PROGRAM CURRENTLY IN THE COMPUTER'S MEMORY.

GRADE 4	- DAY	3
COMPUTER	LITER	RACY
QUIZ 2 -		
TEACHER'		

NAME	30
SECTION	

RESERVED WORD

LINE NUMBER

NEW

PRINT

PROGRAM

RUN SYNTAX ERROR

USING THE WORDS ABOVE, WRITE THE CORRECT WORD MENTIONED IN YESTERDAY'S LESSON BY THE APPROPRIATE DEFINITION:

1.	SYNTAX ERROR	- THE MESSAGE THE COMPUTER PRINTS WHEN IT DOES NOT UNDERSTAND YOU.
2.	PROGRAM	- A LIST OF INSTRUCTIONS (STATEMENTS) FOR THE COMPUTER TO FOLLOW.
3.	RESERVED WORD	- A WORD THAT HAS A SPECIAL MEANING AND MAKES A DIRECT STATEMENT TO THE COMPUTER.
4.	PRINT	- THIS WORD IS USED IN A PROGRAM TO TELL THE COMPUTER TO WRITE CHARACTERS.
5.	LINE NUMBER	- IT MUST APPEAR AT THE BEGINNING OF EACH LINE OF A PROGRAM. THE COMPUTER STARTS AT THE SMALLEST ONE.
6.	RUN	- THE COMMAND THAT EXECUTES (OR CARRIES OUT) THE PROGRAM CURRENTLY IN THE COMPUTER'S MEMORY.
7.	NEW	- THE COMMAND THAT ERASES THE PROGRAM CURRENTLY IN THE COMPUTER'S MEMORY

GRADE 4 -	DAY	3
COMPUTER I	JITER	LACY
OHT 2 2A -	DAY	2
STUDENT'S	COPY	?
D. 02-		

NAME	31
SECTION _	

RESERVED WORD

LINE NUMBER

NEW

PRINT

PROGRAM

RUN

SYNTAX ERROR

USING THE WORDS ABOVE, WRITE THE CORRECT WORD MENTIONED IN YESTERDAY'S LESSON BY THE APPROPRIATE DEFINITION:

1.	- THE COMMAND THAT ERASES THE PROGRAM CURRENTLY IN THE COMPUTER'S MEMORY.
2.	- THE COMMAND THAT EXECUTES (OR CARRIES OUT) THE PROGRAM CURRENTLY IN THE COMPUTER'S MEMORY.
3	- IT MUST APPEAR AT THE BEGINNING OF EACH LINE OF A PROGRAM. THE COMPUTER STARTS A THE SMALLEST ONE.
4.	- THIS WORD IS USED IN A PROGRAM TO TELL THE COMPUTER TO WRITE CHARACTERS.
5.	- A WORD THAT HAS A SPECIAL MEANING AND MAKES A DIRECT STATEMENT TO THE COMPUTER
6.	- A LIST OF INSTRUCTIONS (STATEMENTS) FOR THE COMPUTER TO FOLLOW.
7.	- THE MESSAGE THE COMPUTER PRINTS WHEN IT DOES NOT UNDERSTAND YOU.

RESERVED WORD

	NAME	32
	SECTION	٠
LINE NUMBER	NEW PRINT	!
1	RUN SYNTAX ERROF	t
TE THE CORRECT DEFINITION:	WORD MENTIONED IN YESTERDAY	S

USING THE WORDS ABOVE, WRITE THE CORLLESSON BY THE APPROPRIATE DEFINITION

PROGRAM

1.	NEW	-	THE COMMAND THAT ERASES THE PROGRAM CURRENTLY IN THE COMPUTER'S MEMORY.
2.	RUN	-	THE COMMAND THAT EXECUTES (OR CARRIES OUT) THE PROGRAM CURRENTLY IN THE COMPUTER'S MEMORY.
3.	LINE NUMBER	_	IT MUST APPEAR AT THE BEGINNING OF EACH LINE OF A PROGRAM. THE COMPUTER STARTS AT THE SMALLEST ONE.
4.	PRINT	-	THIS WORD IS USED IN A PROGRAM TO TELL

- THE COMPUTER TO WRITE CHARACTERS.
- A WORD THAT HAS A SPECIAL MEANING AND RESERVED WORD 5. MAKES A DIRECT STATEMENT TO THE COMPUTER.
- A LIST OF INSTRUCTIONS (STATEMENTS) FOR THE COMPUTER TO FOLLOW. 6. PROGRAM
- 7. SYNTAX ERROR - THE MESSAGE THE COMPUTER PRINTS WHEN IT DOES NOT UNDERSTAND YOU.

GRADE 4 -	DAY 3
COMPUTER I	ITERACY
WORKSHEET	3
CTIDENT'S	COPY

NAME	
SECTION	

22

DEFINITIONS:

- 1. THE RESERVED WORD "LIST" SHOWS YOU THE PROGRAM THAT IS CURRENTLY IN THE COMPUTER'S MEMORY
- 2 THE RESERVED WORD "END" IS USED IN THE LAST LINE OF A PROGRAM.
- 3. THE FIVE MAIN PARTS OF A MICROCOMPUTER ARE:

KEYBOARD

MONITOR

DISK DRIVE

MEMORY

CPU

GET THE PROGRAM IN THE PROPER ORDER:

1. ENTER THE APPROPRIATE PROGRAM FOLLOWING THE TEACHER'S INSTRUCTIONS:

PROGRAM A:		PRO	PROGRAM B:		PROGRAM C:		PROGRAM D:		PROGRAM E:	
60 40 10 70 50 20 30	PRINT "G PRINT "I PRINT "I END PRINT "N PRINT "R PRINT "V	30 80 10 190	PRINT"A" PRINT"A" PRINT"H" END PRINT"H" PRINT"I" PRINT"I"	20 80 50 60 90 70	PRINT"E" PRINT"H" PRINT"I" END PRINT"N" PRINT"P" PRINT"R"	30 10 20 80 70 60 40	PRINT"E" PRINT"M" END PRINT"N" PRINT"O" PRINT"R" PRINT"S"	40 70 10 30 90 50 20	PRINT"E" PRINT"K" PRINT"M" END PRINT"N" PRINT"O" PRINT"S"	
		40	PRINT"W"	40	PRINT"S"	•		80	PRINT"Y"	

2. ENTER THE RESERVED WORD THAT WILL EXECUTE THE PROGRAM THAT IS CURRENTLY IN THE COMPUTER'S MEMORY.

WRITE THE OUTPUT: ___

- 3. ENTER THE RESERVED WORD THAT WILL SHOW YOU THE PROGRAM THAT IS CURRENTLY IN THE COMPUTER'S MEMORY
- 4. DO NOT ENTER THE RESERVED WORD: NEW
- 5. ENTER THE FOLLOWING PROGRAM, EXECUTE IT, AND SHOW THE PROGRAM TO THE TEACHER IN ITS PROPER ORDER:

220 PRINT"B" PRINT"C" 120

PRINT"E" 230

PRINT"E" 210

PRINT"H" 130

200 PRINT"H" PRINT"I"

170

PRINT"L" 160

260 END

PRINT"O" 140

150 PRINT"O"

240 PRINT"S"

PRINT"S" 110

PRINT"S" 180

PRINT"T" 250

PRINT"T" 190

G4.D03.W3.SC

DEFINITIONS:											
1 THE RESERVED	WORD	"LIST"	SHOWS	YOU	THE	PROGRAM	THAT	IS	CURRENTLY	IN	THE

COMPUTER'S MEMORY. 2. THE RESERVED WORD "END" IS USED IN THE LAST LINE OF A PROGRAM.

3. THE FIVE MAIN PARTS OF A MICROCOMPUTER ARE:

KKYBOARD

MONITOR

DISK DRIVE

34

MEMORY

CPII

GET THE PROGRAM IN THE PROPER ORDER:

1. ENTER THE APPROPRIATE PROGRAM FOLLOWING THE TEACHER'S INSTRUCTIONS:

PROG	RAM A:		PROG	RAM B:	PRO	GRAM C:	PRO	GRAM D:	PRO	GRAM E:
60 40 10 70 50 20 30	PRINT PRINT PRINT END PRINT PRINT PRINT	"I" "I" "N" "R"		PRINT"A" PRINT"A" PRINT"H" END PRINT"H" PRINT"H" PRINT"I" PRINT"I"	20 80 50 60 90 70 10	PRINT"E" PRINT"H" PRINT"I" END PRINT"N" PRINT"P" PRINT"P"	30 10 20 80 70 60 40	PRINT"E" PRINT"M" END PRINT"N" PRINT"O" PRINT"R" PRINT"S"	40 70 10 30 90 50 20 60	PRINT"E" PRINT"K" PRINT"M" END PRINT"N" PRINT"O" PRINT"O" PRINT"S"
			:40	PRINT"W"	140	PRINT"S"	!		180	PRINT"Y"

2. ENTER THE RESERVED WORD THAT WILL EXECUTE THE PROGRAM THAT IS CURRENTLY IN THE COMPUTER'S MEMORY.

WRITE THE OUTPUT:

- 3 ENTER THE RESERVED WORD THAT WILL SHOW YOU THE PROGRAM THAT IS CURRENTLY IN THE COMPUTER'S MEMORY.
- 4. DO NOT ENTER THE RESERVED WORD: NEW
- 5. ENTER THE FOLLOWING PROGRAM, EXECUTE IT, AND SHOW THE PROGRAM TO THE TEACHER IN ITS PROPER ORDER:

220 PRINT"B" 120 PRINT"C" 230 PRINT"E" 210 PRINT"E" 130 PRINT"H" 200 PRINT"H"

170 PRINT"I" 160 PRINT"L"

END 260

140 PRINT"O" PRINT"O" 150

240 PRINT"S"

110 PRINT"S"

PRINT"S" 180

250 PRINT"T" 190 PRINT"T"

ADDITIONAL TOPIC: (ADD THREE PRINT STATEMENTS AT 165, 185 AND 215)

G4. DO3. W3. TC

LESSON PLAN

GRADE 4 - DAY 4 COMPUTER LITERACY TEACHER'S LESSON PLAN	
INSTRUCTIONAL AIDS:	TOOLS, EQUIPMENT AND MATERIALS:
COPIES OF THE NECESSARY HANDOUTS AND QUIZ 3 - DAY 3	CHALK, ERASER AND PENCILS
OBJECTIVE, INTRODUCTION, PRESENTATION, STUDENT EVALUATION, ADDITIONAL TOPIC	SUMMARY, STUDENT INVOLVEMENT,

OBJECTIVE FOR THE DAY:

THE STUDENTS WILL LEARN AND PRACTICE PROGRAMMING SKILLS BY ENTERING SOME PROGRAMS GIVEN TO THEM AND CREATING SOME PROGRAMS OF THEIR OWN. THE STUDENTS WILL BE PREPARED FOR A TEST ON DAY 5.

INTRODUCTION:

REVIEW WITH THE STUDENTS THE MATERIAL COVERED AT THE PREVIOUS CLASS AND GIVE A QUIZ IN THE HOMEROOM.

PRESENTATION:

DISTRIBUTE COPIES OF:

WORKSHEET #4 (G4.DO4.W4.SC)

THIS LESSON IS DIVIDED INTO TWO PARTS. THE STUDENTS WORKING ON A SPECIFIC COMPUTER WILL BE DOING TWO DIFFERENT ACTIVITIES. WHILE ONE STUDENT IS DOING PROGRAMMING, THE OTHER STUDENT SHOULD BE WRITING THE OUTPUT TO THAT PROGRAM ON HIS/HER WORKSHEET. BEFORE THE STUDENTS EXECUTE THE PROGRAM, THE TEACHER SHOULD BE CALLED BY THE STUDENTS RAISING THEIR HANDS TO HAVE THEIR PROGRAM AND WRITTEN OUTPUT CHECKED.

AGAIN, REMIND THE STUDENTS WHAT THE < > BRACKETS MEAN WHEN THEY SEE THEM ON THEIR WORKSHEETS. THIS IS THE FIRST DAY THAT THEY WILL HAVE SEEN THE RESERVED WORD: REM, SO MAKE IT CLEAR TO THE STUDENTS WHAT IT IS.

LESSON PLAN CONTINUED PAGE 2

GRADE 4 - DAY 4 COMPUTER LITERACY TEACHER'S LESSON PLAN	
OBJECTIVE, INTRODUCTION, PRESENTATION, SUMMARY, STUDENT INVOLVEMENT, STUDENT EVALUATION, ADDITIONAL TOPIC	

SUMMARY:

REVIEW THE MATERIAL DISCUSSED DURING TODAY'S CLASS MEETING.

STUDENT INVOLVEMENT:

THE STUDENTS WILL BE WORKING INDEPENDENTLY ON A QUIZ.
THE STUDENTS WILL BE WORKING ON A COMMODORE WITH A PARTNER.
THE STUDENTS WILL WORK TOWARD CORRECTLY COMPLETING A WORKSHEET.

STUDENT EVALUATION:

THE STUDENTS' QUIZZES WILL BE EVALUATED GIVING ONE POINT FOR EACH CORRECT ANSWER.

THE STUDENTS' PROGRESS ON THE WORKSHEETS SHOULD BE EVALUATED AND RECORDED ON THE BASIS OF FIVE POINTS FOR A CORRECTLY COMPLETED WORKSHEET.

ADDITIONAL TOPIC:

IF THE STUDENTS FINISH WITH WORKSHEET #4, YOU COULD DISCUSS WITH THEM THE POSSIBLE TYPES OF QUESTIONS TO EXPECT ON THE TEST TOMORROW OR WORK ON COLOR GRAPHICS PROGRAMMING.

CHECK THAT ALL COMPUTERS, MONITORS AND DISK DRIVES ARE TURNED OFF.

GRADE 4 - DAY 4 COMPUTER LITERACY	NAME
QUIZ 3 - DAY 3 STUDENT'S COPY	SECTION
WRITE THE CORRECT WORD MENTIONED IN LESSON BY THE APPROPRIATE DEFINITION	n Yesterday's On:
1.	- THE COMMAND THAT SHOWS YOU THE PROGRAM THAT IS CURRENTLY IN THE COMPUTER'S MEMORY.
2.	- THE WORD THAT IS FOUND IN THE LAST LINE OF A PROGRAM.
NAME THE FIVE MAIN PARTS OF A MICRO DURING THIS MINI-COURSE.	DOOMPUTER THAT WE HAVE DISCUSSED
3.	
4.	
5	

7.

GRADE 4 - DAY 4 COMPUTER LITERACY	NAME	38
QUIZ 3 - DAY 3 TEACHER'S COPY	SECTION	٠
WRITE THE CORRECT WORD MENTIONED IN LESSON BY THE APPROPRIATE DEFINITION	I YESTERDAY'S N:	
1. LIST	- THE COMMAND THAT SHOWS YOU TH THAT IS CURRENTLY IN THE COMP MEMORY.	E PROGRAM UTER'S
2. <u>END</u>	- THE WORD THAT IS FOUND IN THE OF A PROGRAM.	LAST LINE
NAME THE FIVE MAIN PARTS OF A MICRO DURING THIS MINI-COURSE.	COMPUTER THAT WE HAVE DISCUSSED	
3. KEYBOARD		
4. MONITOR		
5. DISK DRIVE		
6. MEMORY		

7. CPU (CENTRAL PROCESSING UNIT)

GRADE 4 - DAY 4 COMPUTER LITERACY	NAME		····	39	
WORKSHEET 4 STUDENT'S COPY	SECTION				
1. ENTER THE PROGRAM OR WRITE THE OUTPUT TEACHER'S INSTRUCTIONS:	f for the	PROGRAM	BELOW,	FOLLOWING	THE
PROGRAM: (LEFT)	OUTPUT:	(RIGHT)		
10 REM NAME AND ADDRESS PROGRAM					
20 PRINT " <shift clr-home="">"</shift>		<u> </u>	·		
30 PRINT " <first and="" last="" name="">"</first>					
40 PRINT " <your address="" home="">"</your>					
50 PRINT " <city, state,="" zipcode="">"</city,>					
60 END					
2. ENTER THE PROGRAM OR WRITE THE OUTPUT TEACHER'S INSTRUCTIONS:	FOR THE	PROGRAM	BELOW,	FOLLOWING	THE
PROGRAM: (RIGHT)	OUTPUT:	(LEFT)			
10 REM NAME AND ADDRESS PROGRAM	*				
20 PRINT " <shift clr-home="">"</shift>		······································			
30 PRINT " <first and="" last="" name="">"</first>					
40 PRINT " <your address="" home="">"</your>			·-		
50 PRINT " <city, state,="" zipcode="">"</city,>	<u> </u>		·		
60 FND					

GRADE 4 - COMPUTER I	. I T E	RACY		NA.	AME			40	
WORKSHEET STUDENT'S	4 -	PAGE 2		SI	ECTION _				•
3. ENTER TEACHER	THE R'S	PROGRAM OR WRITE INSTRUCTIONS:	THE	PROGRAM	FOR THE	OUTPUT	BELOW,	FOLLOWING	THE
PROGRAM:	(LE	EFT)		OU	JTPUT:	(RIGHT)	•		
				-					
					ODORE CO	OMPUTERS	3		
) WILSON	DRIVE			
				west	CHESTE	R, PA.	19380		
				-					
		PROGRAM OR WRITE INSTRUCTIONS:	THE	PROGRAM	FOR THE	OUTPUT	BELOW,	FOLLOWING	THE
PROGRAM:	(RI	GHT)		Ot	JTPUT:	(LEFT)			
				-					
				- ADDI	LE COMPU	T 2077	ıc		
				_	25 MARIA	ŕ			
				-	ERTINO, (

WORKSHEET 4 TEACHER'S COPY 1 ENTER THE PROGRAM OR WRITE THE OUTPUT FOR THE PROGRAM BELOW. FOLLOWING THE TEACHER'S INSTRUCTIONS: PROGRAM: (LEFT) OUTPUT: (RIGHT) REM NAME AND ADDRESS PROGRAM THIS LINE SHOULD BE BLANK 10 PRINT "<SHIFT/CLR-HOME>" THIS LINE SHOULD BE BLANK 20 FIRST AND LAST NAME PRINT "<FIRST AND LAST NAME>" 30 PRINT "<YOUR HOME ADDRESS>" HOME ADDRESS 40 PRINT "<CITY, STATE, ZIPCODE>" CITY, STATE, ZIPCODE 50 60 END THIS LINE SHOULD BE BLANK 2. ENTER THE PROGRAM OR WRITE THE OUTPUT FOR THE PROGRAM BELOW, FOLLOWING THE TEACHER'S INSTRUCTIONS: PROGRAM: (RIGHT) OUTPUT: (LEFT) REM NAME AND ADDRESS PROGRAM 10 THIS LINE SHOULD BE BLANK 20 PRINT "<SHIFT/CLR-HOME>" THIS LINE SHOULD BE BLANK 30 PRINT "<FIRST AND LAST NAME>" FIRST AND LAST NAME

HOME ADDRESS

CITY, STATE, ZIPCODE

THIS LINE SHOULD BE BLANK

END

PRINT "<YOUR HOME ADDRESS>"

PRINT "<CITY, STATE, ZIPCODE>"

40

50

60

GRADE 4 - DAY 4 COMPUTER LITERACY WORKSHEET 4 - PAGE 2 TEACHER'S COPY	NAME	42
3. ENTER THE PROGRAM OR WRITE THE TEACHER'S INSTRUCTIONS:	PROGRAM FOR THE OUTPUT BELOW,	FOLLOWING THE
PROGRAM: (LEFT)	OUTPUT: (RIGHT)	
10 REM NAME AND ADDRESS PROGRAM	-	
20 PRINT " <shift clr-home="">"</shift>	_	
30 PRINT "COMMODORE COMPUTERS"	_ COMMODORE COMPUTERS	
40 PRINT "1200 WILSON DRIVE"	1200 WILSON DRIVE	
50 ? "WEST CHESTER, PA. 19380"	WEST CHESTER, PA. 19380	
60 END	-	
4. ENTER THE PROGRAM OR WRITE THE TEACHER'S INSTRUCTIONS:	PROGRAM FOR THE OUTPUT BELOW,	FOLLOWING THE
PROGRAM: (RIGHT)	OUTPUT: (LEFT)	
10 REM NAME AND ADDRESS PROGRAM	_	
20 PRINT " <shift clr-home="">"</shift>	_	
30 PRINT "APPLE COMPUTERS, INC"	APPLE COMPUTERS, INC	
40 PRINT "20525 MARIANI AVENUE"	20525 MARIANI AVENUE	
50 PRINT "CUPERTINO, CA. 95014"	CUPERTINO, CA. 95014	
60 END		

GRADE 4 - DAY 5 COMPUTER LITERACY TEACHER'S LESSON PLAN	
INSTRUCTIONAL AIDS: COPIES OF THE NECESSARY HANDOUTS COPIES OF THE TEST - 2 PAGES TEST 1 - DAY 5	TOOLS, EQUIPMENT AND MATERIALS: PENCILS
OBJECTIVE, INTRODUCTION, PRESENTATION, S STUDENT EVALUATION, ADDITIONAL TOPIC	UMMARY, STUDENT INVOLVEMENT,

OBJECTIVE FOR THE DAY:

THE STUDENTS WILL REVIEW WITH THE TEACHER THE COMPUTER PROGRAMMING SKILLS AND TAKE A TEST. THE STUDENTS WILL BE GIVEN THE INSTRUCTIONS FOR THE GRAPHICS PROGRAMS THAT THE STUDENTS WILL BE LEARNING DURING THE NEXT WEEK.

INTRODUCTION:

REVIEW WITH THE STUDENTS THE MATERIAL COVERED AT THE PREVIOUS CLASSES AND GIVE A TEST IN THE HOMEROOM.

PRESENTATION:

DISTRIBUTE COPIES OF:

TEST #1 (G4.D05.T1.SC)

ADMINISTER THE TEST.

INSTRUCTIONS FOR THE MATCHING SECTION:

"THERE ARE 12 DEFINITIONS AND 12 WORDS. WRITE THE LETTER A - L ON THE LINE NEXT TO THE CORRECT DEFINITION. EACH LINE IS WORTH ONE POINT."

INSTRUCTIONS FOR THE TRUE AND FALSE SECTION:

"THERE ARE 6 TRUE OR FALSE QUESTIONS. WRITE A "T" OR A "F" ON THE LINE NEXT TO THE PROBLEM NUMBER. EACH LINE IS WORTH ONE POINT."

INSTRUCTIONS FOR PAGE TWO OF THE TEST:

"THE FIRST PROBLEM IS WORTH 17 POINTS. YOU HAVE BEEN GIVEN THE OUTPUT TO A PROGRAM. YOU ARE TO WRITE OUT THE ENTIRE PROGRAM. THE POINTS FOR EACH LINE ARE: 3,4,4,4,4 AND 2. THE SECOND PROBLEM IS WORTH 15 POINTS. YOU HAVE BEEN GIVEN A PROGRAM. YOU ARE TO WRITE THE OUTPUT ONLY. THE POINTS FOR EACH LINE ARE: 2,2,3,3,3 AND 2."

WHEN THE STUDENTS TURN IN THEIR TESTS, DISTRIBUTE COPIES OF:

STUDENT HANDOUT #2 (G4.D06.SH2.CC) STUDENT HANDOUT #3 (G4.D06.SH3.PC)

G4.DO5.LP.TC

LESSON PLAN CONTINUED PAGE 2

GRADE 4 - DAY 5 COMPUTER LITERACY TEACHER'S LESSON PLAN
OBJECTIVE, INTRODUCTION, PRESENTATION, SUMMARY, STUDENT INVOLVEMENT, STUDENT EVALUATION, ADDITIONAL TOPIC

SUMMARY:

IF THERE IS TIME AVAILABLE, YOU COULD GO OVER THE TEST.

STUDENT INVOLVEMENT:

THE STUDENTS WILL BE WORKING INDEPENDENTLY ON A TEST.

STUDENT EVALUATION:

THE STUDENTS' TESTS WILL BE EVALUATED GIVING THE APPROPRIATE POINT VALUE FOR EACH CORRECT ANSWER.

ADDITIONAL TOPIC:

TALK ABOUT THE TOPIC FOR DAY 6 WHICH IS THE USE OF THE COLOR GRAPHICS COMMANDS. MENTION THE USE OF THE KEY MARKED "CTRL" AND THE NUMBERS 1 THROUGH 9. REMIND THEM TO REVIEW THE STUDENT HANDOUT #1 REGARDING THE KEYBOARD AND THE TWO NEW STUDENT HANDOUTS GIVEN TO THEM AFTER THE TEST.

CHECK THAT ALL COMPUTERS, MONITORS AND DISK DRIVES ARE TURNED OFF.

GRADE 4 -	DAY 5
COMPUTER	LITERACY
TEST #1 -	DAY 5
STUDENT'S	COPY

NAME	40
CECTION	

STUDENT	'S COPY			SECTION			
MATCHIN	G: LISTE	EN TO THE T	EACHER'S INS	STRUCTIONS.			
		OF THE CO	MPUTER LANG			A .	DISK DRIVE
_			A MICROCOME	Names of the second		В.	COMPUTER
2.	USED IN	THIS MINI-	COURSE.	UIEK		C.	BASIC
3.						D.	MONITOR
4.						E.	RETURN
5.						F.	RUN
6.						G.	MEMORY
	min kira	ערון אווריי די	RESS TO ENTE	yn.		Н.	LINE NUMBER
	INFORMAT	TOO HOST P	HE COMPUTER	S MEMORY.		I.	LIST
8.	THE COMP	MAND THAT S	HOWS YOU THE	PROGRAM		J.	KEYBOARD
9.			XECUTES (OR		JT)	Κ.	NEW
	THE PROC	RAM IN THE	COMPUTER'S	MEMORY.		L.	CPU
10.		IAND THAT E COMPUTER'S	RASES THE PR MEMORY.	OGRAM			
11.	IT MUST LINE OF	APPEAR AT A PROGRAM.	THE BEGINNIN	G OF EACH			
12.	A MACHIN	E WHICH PE SPEED WITH	RFORMS TASKS GREAT ACCUR	S AT A HIGH PACY.	I		
TRUE OR	FALSE:	LISTEN TO	THE TEACHER'	S INSTRUCT	'IONS.		
13.		ONLY THE		CLEARS TE	IE SCREEN A	nd sei	NDS THE CURSOR
14.	A PROGRA	M IS A LIS	T OF INSTRUC	CTIONS (STA	ATEMENTS) F	OR THI	E COMPUTER TO
15.	THE WORL	THAT IS F	OUND IN THE	LAST LINE	OF A PROGR	AM IS:	"STOP".
16.		SAGE THE CO	MPUTER PRINT	's when it	DOES NOT U	NDERST	TAND YOU IS:
17.			THAT MOVES A			ING WE	HERE THE NEXT
1.0	ATT COM	ANTIC ADE T	OF CAME FOR	ANY COMPLIT	סישי		

GRADE 4 - DAY 5 COMPUTER LITERACY	NAME
TEST #1 - DAY 5 STUDENT'S COPY - PAGE 2	SECTION
PROGRAMMING: LISTEN TO THE TEACHER'S	INSTRUCTIONS.
19-35. WRITE THE ENTIRE PROGRAM FROM	THE FOLLOWING OUTPUT:
COMMODORE COMPUTERS	
1200 WILSON DRIVE	
WEST CHESTER, PA. 19380	
36-50. WRITE THE OUTPUT ONLY FROM THE	FOLLOWING PROGRAM:
	10 REM NAME AND ADDRESS PROGRAM
	20 PRINT " <shift clr-home="">"</shift>
	30 PRINT "APPLE COMPUTERS, INC"
	40 PRINT "20525 MARIANI AVENUE"
	50 PRINT "CUPERTINO, CA. 95014"

60 END

COMPUTE	- DAY 5 R LITERACY	NAME		47		
TEST #1 TEACHER	- DAY 5 'S COPY	SECTION		٠		
MATCHING: LISTEN TO THE TEACHER'S INSTRUCTIONS.						
<u>c</u> 1.	THE NAME OF THE COMPUTER LANGUAGEN THIS CLASS.	GE USED	A.	DISK DRIVE		
1 2	FIVE MAIN PARTS OF A MICROCOMPU	ጥ ያን	В.	COMPUTER		
	USED IN THIS MINI-COURSE.	•	C.	BASIC		
<u>D</u> 3.			D.	MONITOR		
<u>A</u> 4.			E.	RETURN		
<u>G</u> 5.			F .	RUN		
<u>L</u> 6.			G.	MEMORY		
r 7	THE KEY YOU MUST PRESS TO ENTER		Н.	LINE NUMBER		
<u> </u>	INFORMATION INTO THE COMPUTER'S MEMORY.		I.	LIST		
<u> </u>	THE COMMAND THAT SHOWS YOU THE I	PROGRAM	J.	KEYBOARD		
E Q	THE COMMAND THAT EXECUTES (OR CA		K.	NEW		
<u> </u>	THE PROGRAM IN THE COMPUTER'S M	EMORY.	L.	CPU		
<u>K</u> 10.	THE COMMAND THAT ERASES THE PROOIN THE COMPUTER'S MEMORY.	GRAM				
<u>H</u> 11.	IT MUST APPEAR AT THE BEGINNING LINE OF A PROGRAM.	OF EACH				
<u>B</u> 12.	A MACHINE WHICH PERFORMS TASKS A RATE OF SPEED WITH GREAT ACCURAGE					
TRUE OR	FALSE: LISTEN TO THE TEACHER'S	INSTRUCTIONS.				
<u>F</u> 13.	PRESSING ONLY THE CLR-HOME KEY OF THE UPPER LEFT CORNER.	CLEARS THE SCREEN A	IND SE	NDS THE CURSOR		
<u>T</u> _14.	A PROGRAM IS A LIST OF INSTRUCT: FOLLOW.	IONS (STATEMENTS) E	OR TH	E COMPUTER TO		

F 15. THE WORD THAT IS FOUND IN THE LAST LINE OF A PROGRAM IS: "STOP".

T 16. THE MESSAGE THE COMPUTER PRINTS WHEN IT DOES NOT UNDERSTAND YOU IS: "?SYNTAX ERROR".

T 17. THE LITTLE SQUARE THAT MOVES ALONG THE SCREEN SHOWING WHERE THE NEXT LETTER YOU TYPE GOES IS CALLED THE CURSOR.

F 18. ALL COMMANDS ARE THE SAME FOR ANY COMPUTER.

G4.D05.T1.TC

GRADE 4 - DAY 5 COMPUTER LITERACY	NAME	48
TEST #1 - DAY 5 TEACHER'S COPY - PAGE 2	SECTION	
PROGRAMMING: LISTEN TO THE TEACHER'S I	NSTRUCTIONS.	
19-35. WRITE THE ENTIRE PROGRAM FROM TH	E FOLLOWING OUTPUT:	
	10 REM NAME OF PROGRAM (3	PTS)
	20 ? " <shift clr-home="">" (4</shift>	PTS)
COMMODORE COMPUTERS	30 ? "COMMODORE COMPUTERS" (4	PTS)
1200 WILSON DRIVE	40 ? "1200 WILSON DRIVE" (4	PTS)
WEST CHESTER, PA. 19380	50 ?"WEST CHESTER, PA. 19380" (4	PTS)
	60 END (2	PTS)
	TOTAL: (17	PTS
36-50. WRITE THE OUTPUT ONLY FROM THE F	OLLOWING PROGRAM:	
(2 PTS) THIS LINE IS BLANK	10 REM NAME AND ADDRESS PROGRA	M
(2 PTS) THIS LINE IS BLANK	20 PRINT " <shift clr-home="">"</shift>	
(3 PTS) APPLE COMPUTERS, INC	30 PRINT "APPLE COMPUTERS, INC	11
(3 PTS) 20525 MARIANI AVENUE	40 PRINT "20525 MARIANI AVENUE	***
(3 PTS) CUPERTINO, CA. 95014	50 PRINT "CUPERTINO, CA. 950	14"
(2 PTS) THIS LINE IS BLANK	60 END	
TOTAL: (15 PTS)		
SUGGESTED GRADING:		
A = 45 TO 50 PTS B = 40 TO 44 PTS C = 35 TO 39 PTS D = 30 TO 34 PTS F = 0 TO 29 PTS		

G4.D05.T1.TC

LESSON PLAN

TEACHER'S LESSON PLAN	
INSTRUCTIONAL AIDS:	TOOLS, EQUIPMENT AND MATERIALS:
COPIES OF THE NECESSARY HANDOUTS	CHALK, ERASER AND PENCILS
OBJECTIVE, INTRODUCTION, PRESENTATION STUDENT EVALUATION, ADDITIONAL TOPIC	, SUMMARY, STUDENT INVOLVEMENT,

OBJECTIVE FOR THE DAY:

THE STUDENTS WILL LEARN THE TERMS NECESSARY TO CREATE GRAPHICS PROGRAMS, LEARN HOW TO USE THE CONTROL KEYS TO ENTER COLOR COMMANDS, AND BE PREPARED FOR A QUIZ ON DAY $7\,.$

INTRODUCTION:

MOVE THE CLASS TO THE COMPUTER ROOM AND PROCEED WITH THE LESSON FOR THE DAY.

PRESENTATION:

DISTRIBUTE COPIES OF:

STUDENT HANDOUT #2 (G4.D06.SH2.CC) STUDENT HANDOUT #3 (G4.D06.SH3.PC) WORKSHEET #6

CREATING A COLOR BAR:

THE PURPOSE OF THIS SECTION OF THE WORKSHEET IS TO GIVE THE STUDENTS AN OPPORTUNITY TO BECOME FAMILIAR WITH THE LOCATION AND USE OF THE CONTROL KEYS. WHEN THE STUDENTS COMPLETE THIS SECTION THEY SHOULD HAVE EIGHT COLOR BARS ON THE SCREEN FOR YOU TO CHECK.

COLOR GRAPHICS PROGRAMMING:

THE PURPOSE OF THIS SECTION OF THE WORKSHEET IS TO GIVE THE STUDENTS AN OPPORTUNITY TO BECOME FAMILIAR WITH HOW TO USE THE PREVIOUSLY LEARNED COMMANDS WITH A PROGRAM. WHEN YOU GET TO LINES 40 - 60, IN SMALL GROUPS SHOW THE STUDENTS HOW TO COPY LINES BY USING LINE 30 AND DUPLICATING IT THREE TIMES. WHEN THE STUDENTS COMPLETE THIS SECTION, THEY SHOULD HAVE A PROGRAM THAT WILL HAVE AN OUTPUT OF: BACKGROUND IN ORANGE, AND EIGHT COLOR BARS.

LESSON PLAN CONTINUED CONTINUED PAGE 2

GRADE 4 - DAY 6 COMPUTER LITERACY TEACHER'S LESSON PLAN

OBJECTIVE, INTRODUCTION, PRESENTATION, SUMMARY, STUDENT INVOLVEMENT, STUDENT EVALUATION, ADDITIONAL TOPIC

SUMMARY:

REVIEW THE MATERIAL DISCUSSED DURING TODAY'S CLASS MEETING.

STUDENT INVOLVEMENT:

THE STUDENTS WILL BE WORKING ON A COMMODORE WITH A PARTNER.
THE STUDENTS WILL WORK TOWARD CORRECTLY COMPLETING A WORKSHEET.

STUDENT EVALUATION:

THE STUDENTS' PROGRESS ON THE WORKSHEETS SHOULD BE EVALUATED AND RECORDED ON THE BASIS OF FIVE POINTS FOR A CORRECTLY COMPLETED WORKSHEET.

ADDITIONAL TOPIC:

EMPHASIZE THE COMMANDS LEARNED TODAY, SO THE STUDENTS WILL BE READY FOR THE QUIZ AT THE NEXT CLASS MEETING.

CHECK THAT ALL COMPUTERS, MONITORS AND DISK DRIVES ARE TURNED OFF.

NAME	
SECT	TON

PRESS	COLOR	DISPLAY
CTRL 1	BLACK	
CTRL 2	WHITE	3
CTRL 3	RED	E
CTRL 4	CYAN	
CTRL 5	PURPLE	3
CTRL 6	GREEN	
CTRL 7	BLUE	
CTRL 8	YELLOW	$\boldsymbol{\pi}$
CTRL 9	REVERSE ON	R
CTRL Ø	REVERSE OFF	
	•	

GRADE 4 - DAY 6 COMPUTER LITERACY STUDENT HANDOUT #3 POKE COLOR CODES

NAME	 	 	
SECTION			

NUMBER:	COLOR:		
0	BLACK		
1	WHITE		
2	RED		
3	CYAN	(DARK	BLUE)
4	PURPLE		
5	GREEN		
6	BLUE		
7	YELLOW		

GRADE 4 -	DAY 6
COMPUTER I	.ITERACY
WORKSHEET	6
STUDENT'S	COPY

NAME	53
SECTION	

CREATING A COLOR BAR:

- CLEAR THE SCREEN BY ENTERING THE <SHIFT/CLR-HOME> COMMAND. FIND THE KEY WITH LETTERS: "CTRL" ON IT. PRESS THIS BUTTON AND HOLD IT DOWN WHILE PRESSING THE KEY WITH THE NUMBER 9 ON IT. AGAIN, WHILE HOLDING THE "CTRL" KEY DOWN, PRESS THE KEY WITH THE NUMBER 1 ON IT. THEN PRESS THE SPACE BAR FIVE TIMES.
- 2. REPEAT THE STEPS ABOVE FOR THE NUMBERS 2 THROUGH 8. TAKE TURNS ENTERING INFORMATION INTO THE COMPUTER. THE TEACHER WILL BE AVAILABLE TO ASSIST YOU.
- 3. RAISE YOUR HAND TO HAVE YOUR WORK CHECKED.

COLOR GRAPHICS PROGRAMMING:

- 1 CLEAR THE SCREEN AND CLEAR MEMORY BY ENTERING THE PROPER COMMANDS.
- 2. ENTER THE FOLLOWING PROGRAM:
- 10 REM <PROGRAM NAME>
 15 REM <POUR NAME AND SECTION>
- 20 PRINT "<SHIFT/CLR-HOME>"
- 25 POKE 53280,8 : POKE 53281,8
- 30 PRINT
- 3. RAISE YOUR HAND FOR THE TEACHER'S ASSISTANCE.
- 40 50 60
- 4. ENTER "RUN" AFTER COMPLETING EACH OF THE FOLLOWING LINES OF PROGRAMMING:
- 70 PRINT "<C9><C1><5 SPACES><C0>"
- 80 PRINT "<C9><C2><5 SPACES><C0>"
- 90 PRINT "<C9><C3><5 SPACES><C0>"
- 100 PRINT "<C9><C4><5 SPACES><C0>"
- 110 PRINT "<C9><C5><5 SPACES><C0>"
- 120 PRINT "<C9><C6><5 SPACES><C0>"
- 130 PRINT "<C9><C7><5 SPACES><C0>"
- 140 PRINT "<C9><C8><5 SPACES><C0>"
- 150 END

GRADE 4 - DAY 6
COMPUTER LITERACY
WORKSHEET 6
TEACHER'S COPY

NAME	34
SECTION	

- -

CREATING A COLOR BAR:

- CLEAR THE SCREEN BY ENTERING THE <SHIFT/CLR-HOME> COMMAND. FIND THE KEY WITH LETTERS: "CTRL" ON IT. PRESS THIS BUTTON AND HOLD IT DOWN WHILE PRESSING THE KEY WITH THE NUMBER 9 ON IT. AGAIN, WHILE HOLDING THE "CTRL" KEY DOWN, PRESS THE KEY WITH THE NUMBER 1 ON IT. THEN PRESS THE SPACE BAR FIVE TIMES.
- 2. REPEAT THE STEPS ABOVE FOR THE NUMBERS 2 THROUGH 8. TAKE TURNS ENTERING INFORMATION INTO THE COMPUTER. THE TEACHER WILL BE AVAILABLE TO ASSIST YOU.
- RAISE YOUR HAND TO HAVE YOUR WORK CHECKED.

COLOR GRAPHICS PROGRAMMING:

- 1. CLEAR THE SCREEN AND CLEAR MEMORY BY ENTERING THE PROPER COMMANDS.
- 2. ENTER THE FOLLOWING PROGRAM:
- 10 REM <PROGRAM NAME>
- 15 REM <YOUR NAME AND SECTION>
- 20 PRINT "<SHIFT/CLR-HOME>"
- 25 POKE 53280,8 : POKE 53281,8
- 30 PRINT
- 3. RAISE YOUR HAND FOR THE TEACHER'S ASSISTANCE.
- 40 PRINT

SHOW THE STUDENTS HOW TO DUPLICATE LINES BY COPYING LINE 30

- 50 PRINT ONTO LINES 40 60.
- 60 PRINT
- 4. ENTER "RUN" AFTER COMPLETING EACH OF THE FOLLOWING LINES OF PROGRAMMING:
- 70 PRINT "<C9><C1><5 SPACES><C0>"
- 80 PRINT "<C9><C2><5 SPACES><C0>"
- 90 PRINT "<C9><C3><5 SPACES><C0>"
- 100 PRINT "<C9><C4><5 SPACES><C0>"
- 110 PRINT "<C9><C5><5 SPACES><C0>"
- 120 PRINT "<C9><C6><5 SPACES><C0>"
- 130 PRINT "<C9><C7><5 SPACES><C0>"
- 140 PRINT "<C9><C8><5 SPACES><C0>"
- 150 END

LESSON PLAN

GRADE 4 - DAY 7 COMPUTER LITERACY TEACHER'S LESSON PLAN	
INSTRUCTIONAL AIDS: COPIES OF THE NECESSARY HANDOUTS AND QUIZ 4 - DAY 7	TOOLS, EQUIPMENT AND MATERIALS: CHALK, ERASER AND PENCILS
OBJECTIVE, INTRODUCTION, PRESENTATION, STUDENT EVALUATION, ADDITIONAL TOPIC	SUMMARY, STUDENT INVOLVEMENT,

OBJECTIVE FOR THE DAY:

THE STUDENTS WILL WORK ON A GRAPHICS PROGRAM CALLED HELLO AND BE PREPARED FOR A TEST ON DAY 10. OPTIONAL: THE STUDENTS WILL LEARN HOW TO USE A DISK DRIVE.

INTRODUCTION:

REVIEW WITH THE STUDENTS THE MATERIAL COVERED AT THE PREVIOUS CLASS AND GIVE A QUIZ IN THE HOMEROOM.

PRESENTATION:

DISTRIBUTE COPIES OF:

WORKSHEET #7 (G4.D07.W7.SC)

HAVE THE STUDENTS ENTER THE PROGRAM FROM WORKSHEET #7.

REMIND THEM TO CHECK EACH LINE BY EXECUTING THE PROGRAM LINE BY LINE.

BEFORE THE END OF THE CLASS TIME, HAVE THE STUDENTS STOP WORKING AND GUIDE THEM THROUGH THE PROCESS OF SAVING THEIR WORK ON A DISK.

LESSON PLAN CONTINUED PAGE 2

GRADE 4 - DAY 7
COMPUTER LITERACY
TEACHER'S LESSON PLAN
OBJECTIVE, INTRODUCTION, PRESENTATION, SUMMARY, STUDENT INVOLVEMENT,
STUDENT EVALUATION, ADDITIONAL TOPIC

SUMMARY:

REVIEW THE MATERIAL DISCUSSED DURING TODAY'S CLASS MEETING.

STUDENT INVOLVEMENT:

THE STUDENTS WILL BE WORKING INDEPENDENTLY ON A QUIZ.
THE STUDENTS WILL BE WORKING ON A COMMODORE WITH A PARTNER.
THE STUDENTS WILL WORK TOWARD CORRECTLY COMPLETING A WORKSHEET.

STUDENT EVALUATION:

THE STUDENTS' QUIZZES WILL BE EVALUATED GIVING ONE POINT FOR EACH CORRECT ANSWER.

THE STUDENTS' PROGRESS ON THE WORKSHEETS SHOULD BE EVALUATED AND RECORDED ON THE BASIS OF FIVE POINTS FOR A CORRECTLY COMPLETED WORKSHEET.

ADDITIONAL TOPIC:

THE STUDENTS COULD WRITE A PROGRAM THAT WILL PRINT THEIR INITIALS.

CHECK THAT ALL COMPUTERS, MONITORS AND DISK DRIVES ARE TURNED OFF.

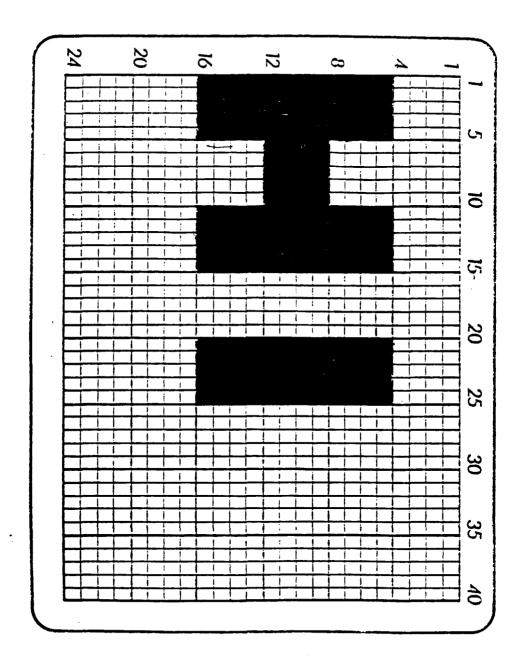
COMP	UTER	- DAY LITE DAY S COF	RACY 6							· · · · · · · · · · · · · · · · · · ·	57	
STUD				3: FILL-1	N THE B	LANKS				ANSWER/R	ESPONSE:	
1.				PRESSED						(RVS ON)	, ARE:	
2.		_		PRESSED						, (RVS OF	F), ARE:	
3.	WRITI WHITI	E A L E COL	INE O	OF PROGRA	MMING TI	HAT I	WILL A B	MAKE . LUE CO	A RED CO LOR BAR	LOR BAR 5 5 SPACES	SPACES Long.	LONG,
SOME	OF S	THE C	ODES	YOU WILL	NEED A	RE:						
<red< td=""><td>> ===</td><td>==> <</td><td>C3>,</td><td></td><td><whiti< td=""><td>C> =:</td><td>===></td><td><c2>,</c2></td><td></td><td><blue></blue></td><td>====> <</td><td>C7></td></whiti<></td></red<>	> ===	==> <	C3>,		<whiti< td=""><td>C> =:</td><td>===></td><td><c2>,</c2></td><td></td><td><blue></blue></td><td>====> <</td><td>C7></td></whiti<>	C> =:	===>	<c2>,</c2>		<blue></blue>	====> <	C7>

GRADE 4 - DAY 7 COMPUTER LITERACY QUIZ 4 - DAY 6 TEACHER'S COPY INSTRUCTIONS: FILL-IN				IN THE B	NAMESECTIONTHE BLANKS WITH THE CORRECT ANSW								
1.				PRESSED								ARE:	
2.				PRESSED), ARI	€:
3.				F PROGRA									S LONG,
SOME	OF	THE C	ODES	YOU WILI	L NEED A	RE:							
<rei< td=""><td>)> ===</td><td>=> <</td><td>C3>,</td><td></td><td><whit< td=""><td>E> ==</td><td>==></td><td><c2>,</c2></td><td></td><td></td><td><blue> :</blue></td><td>====></td><td><c7></c7></td></whit<></td></rei<>)> ===	=> <	C3>,		<whit< td=""><td>E> ==</td><td>==></td><td><c2>,</c2></td><td></td><td></td><td><blue> :</blue></td><td>====></td><td><c7></c7></td></whit<>	E> ==	==>	<c2>,</c2>			<blue> :</blue>	====>	<c7></c7>

20 PRINT "<C9><C3><5 SPACES><C2><5 SPACES><C7><5 SPACES><C0>" (10 PTS)

GRADE 4 - DAY 7 COMPUTER LITERACY WORKSHEET 7 STUDENT'S COPY	NAME
ENTER THE FOLLOWING PROGRAM: 10 REM	<u>></u>
TYPE "RUN" AFTER COMPLETING EACH OF	THE FOLLOWING LINES OF PROGRAMMING:

- 60 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C1><5 SPACES><C0>"
- 70 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>"
- 80 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>"
- 90 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>
 <5 SPACES><C9><C1><5 SPACES><C0>"
- 100 PRINT "<C9><C1><15 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>"
- 110 PRINT "<C9><C1><15 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>"
- 120 PRINT "<C9><C1><15 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>"
- 130 PRINT "<C9><C1><15 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>"
- 140 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C1><5 SPACES><C0>
 <5 SPACES><C0>"
- 150 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>"
- 160 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C1><5 SPACES><C0>"
- 170 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>
 <
- 180 END



GRADE 4 - DAY 7 COMPUTER LITERACY	NAME
WORKSHEET 7 TEACHER'S COPY	SECTION

FINTER THE FOLLOWING PROGRAM:

<HELLO PROGRAM>
<YOUR NAME AND SECTION> 10 REM DIM

15 PRINT "<SHIFT/CLR-HOME>

20 POKE 53280.8 : POKE 53281.8 25

FOR X = 1 TO 4 30

PRINT 40

NEXT X 50

TYPE "RUN" AFTER COMPLETING EACH OF THE FOLLOWING LINES OF PROGRAMMING:

61

- PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0> 60 <5 SPACES><C9><C1><5 SPACES><C0>"
- PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C1><5 SPACES><C0> 70 <5 SPACES><C9><C1><5 SPACES><C0>"
- PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0> <5 SPACES><C9><C1><5 SPACES><C0>"
- PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0> 90 <5 SPACES><C9><C1><5 SPACES><C0>"
- 100 PRINT "<C9><C1><15 SPACES><C0><5 SPACES><C1><5 SPACES><C0>"
- PRINT "<C9><C1><15 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>" 110
- PRINT "<C9><C1><15 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>" 120
- PRINT "<C9><C1><15 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>" 130
- PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0> <5 SPACES><C9><C1><5 SPACES><C0>"
- PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0> <5 SPACES><C9><C1><5 SPACES><C0>"
- 160 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C1><5 SPACES><C0> <5 SPACES><C9><C1><5 SPACES><C0>"
- PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0> 170 <5 SPACES><C9><C1><5 SPACES><C0>"

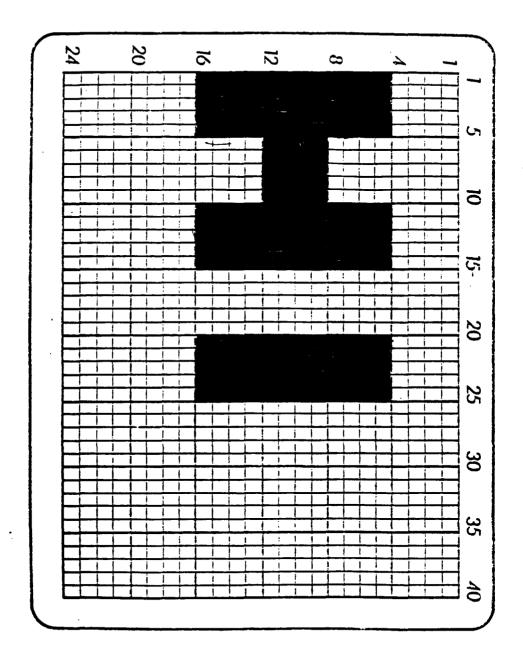
180 END

LINES 60 THROUGH 90 AND 140 THROUGH 170 ARE ALL THE SAME AND CAN BE COPIED INSTEAD OF TYPED IN INDIVIDUALLY. THE SAME IS TRUE FOR LINES 100 THROUGH 130. TO COPY A LINE, ENTER THE LINE THE FIRST TIME, THEN CHANGE THE LINE NUMBER AND PRESS THE RETURN KEY.

G4.DO7.W7.TC

GRADE 4 - DAY 7 COMPUTER LITERACY WORKSHEET 7 TEACHER'S COPY #2

NAME		62
NAIL.		
CECTI	ON	



LESSON PLAN

GRADE 4 - DAY 8 COMPUTER LITERACY TEACHER'S LESSON PLAN	
INSTRUCTIONAL AIDS:	TOOLS, EQUIPMENT AND MATERIALS:
COPIES OF THE NECESSARY HANDOUTS	CHALK, ERASER AND PENCILS
OBJECTIVE, INTRODUCTION, PRESENTATION, STUDENT EVALUATION, ADDITIONAL TOPIC	SUMMARY, STUDENT INVOLVEMENT,

OBJECTIVE FOR THE DAY:

THE STUDENTS WILL WORK ON A GRAPHICS PROGRAM CALLED CLOWN AND BE PREPARED FOR A TEST ON DAY 10. OPTIONAL: THE STUDENTS WILL LEARN HOW TO USE A DISK DRIVE.

INTRODUCTION:

MOVE THE CLASS TO THE COMPUTER ROOM AND PROCEED WITH THE LESSON FOR THE DAY.

PRESENTATION:

DISTRIBUTE COPIES OF:

WORKSHEET #8 (G4.DO8.W8.SC)

HAVE THE STUDENTS ENTER THE PROGRAM FROM WORKSHEET #8.

REMIND THE STUDENTS TO CHECK EACH LINE BY EXECUTING THE PROGRAM LINE BY LINE.

BEFORE THE END OF THE CLASS TIME, HAVE THE STUDENTS STOP WORKING AND GUIDE THEM THROUGH THE PROCESS OF SAVING THEIR WORK ON A DISK.

LESSON PLAN CONTINUED PAGE 2

GRADE 4 - DAY 8
COMPUTER LITERACY
TEACHER'S LESSON PLAN

OBJECTIVE, INTRODUCTION, PRESENTATION, SUMMARY, STUDENT INVOLVEMENT,
STUDENT EVALUATION, ADDITIONAL TOPIC

SUMMARY:

REVIEW THE MATERIAL DISCUSSED DURING THE COURSE AND REMIND THE STUDENTS TO REVIEW ALL MATERIAL IN PREPARATION FOR A FINAL TEST ON DAY TEN.

STUDENT INVOLVEMENT:

THE STUDENTS WILL BE WORKING ON A COMMODORE WITH A PARTNER. THE STUDENTS WILL WORK TOWARD CORRECTLY COMPLETING A WORKSHEET.

STUDENT EVALUATION:

THE STUDENTS' PROGRESS ON THE WORKSHEETS SHOULD BE EVALUATED AND RECORDED ON THE BASIS OF FIVE POINTS FOR A CORRECTLY COMPLETED WORKSHEET.

ADDITIONAL TOPIC:

THE STUDENTS COULD WRITE A PROGRAM THAT WILL PRINT A CLOWN OF THEIR OWN DESIGN.

CHECK THAT ALL COMPUTERS, MONITORS AND DISK DRIVES ARE TURNED OFF.

GRADE 4 - DAY 8 COMPUTER LITERACY WORKSHEET 8 STUDENT'S COPY	NAME
ENTER THE FOLLOWING PROGRAM:	
10 REM <program name=""></program>	<u></u>
15 REM < YOUR NAME AND SECTION	<u> </u>
20 PRINT " <shift clr-home="">"</shift>	
25 POKE 53280,6 : POKE 53281,6	
30 FOR X = 1 TO 8	
40 PRINT	
50 NEXT X	
60 PRINT "<17 SPACES> <c9><c1><8 SP</c1></c9>	PACES> <co>"</co>
70 PRINT "<17 SPACES> <c9><c1><8 SP</c1></c9>	ACES> <co>"</co>
80 PRINT "<15 SPACES> <c9><c1><12 S</c1></c9>	PACES><00>"

<2 SPACES><C2><1 SPACE><C0>"

110 PRINT "<16 SPACES><C9><C2><4 SPACES><C1><2 SPACES><C2><4 SPACES><C0>"

PRINT "<16 SPACES><C9><C2><1 SPACE><C1><2 SPACES><C2><4 SPACE><C1>

- 120 PRINT "<16 SPACES><C9><C2><2 SPACES><C1><1 SPACE><C2><4 SPACES><C1><1 SPACE><C2><2 SPACES><C0>"
- 130 PRINT "<16 SPACES><C9><C2><3 SPACES><C1><4 SPACES><C2><3 SPACES><C0>"
- 140 PRINT "<16 SPACES><C9><C2><10 SPACES><C0>"

PRINT "<16 SPACES><C9><C2><10 SPACES><C0>"

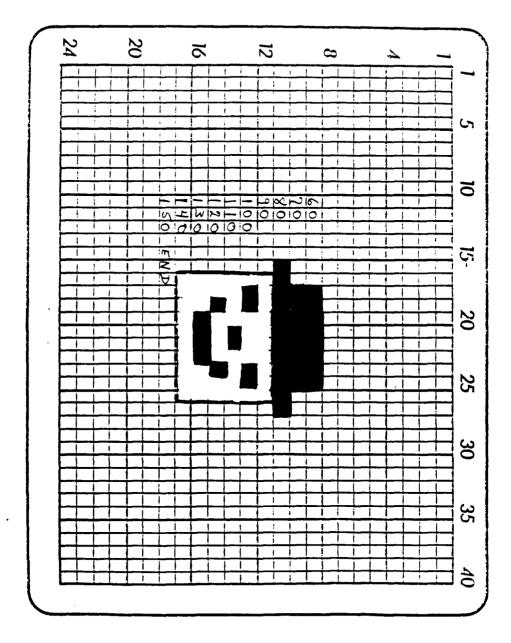
150 END

90

100

GRADE 4 - DAY 8
COMPUTER LITERACY
WORKSHEET 8
STUDENT'S COPY #2

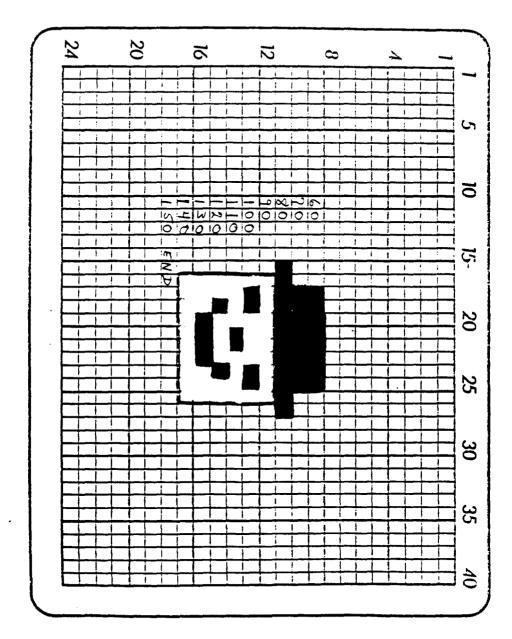
NAME		
SECTI	ON	



COMP	E 4 - DAY 8 JTER LITERACY SHEET 8 HER'S COPY	NAMESECTION	67
ENTE	R THE FOLLOWING PROGRAM:		
10	REM <clown a="" face="" program="" with=""></clown>		
15	REM <your and="" name="" section=""></your>		
20	PRINT " <shift clr-home="">"</shift>		
25	POKE 53280,6 : POKE 53281,6		
30	FOR X = 1 TO 8		
40	PRINT		
50	NEXT X		
60	PRINT "<17 SPACES> <c9><c1><8 SPACES</c1></c9>	3> <c0>"</c0>	
70	PRINT "<17 SPACES> <c9><c1><8 SPACES</c1></c9>	3> <c0>"</c0>	
80	PRINT "<15 SPACES> <c9><c1><12 SPACE</c1></c9>	SS> <c0>"</c0>	
90	PRINT "<16 SPACES> <c9><c2><10 SPACE</c2></c9>	CS> <c0>"</c0>	
100	PRINT "<16 SPACES> <c9><c2><1 SPACES <2 SPACES><c2><1 SPACE><c0>"</c0></c2></c2></c9>	<c1><2 SPACES><c2><4 SPACES><c< td=""><td>1></td></c<></c2></c1>	1>
110	PRINT "<16 SPACES> <c9><c2><4 SPACES</c2></c9>	S> <c1><2 SPACES><c2><4 SPACES><</c2></c1>	CO>
120	PRINT "<16 SPACES> <c9><c2><2 SPACES <1 SPACE><c2><2 SPACES><c0>"</c0></c2></c2></c9>	>>C1><1 SPACE> <c2><4 SPACE><c< td=""><td>1></td></c<></c2>	1>

130 PRINT "<16 SPACES><C9><C2><3 SPACES><C1><4 SPACES><C2><3 SPACES><C0>"

140 PRINT "<16 SPACES><C9><C2><10 SPACES><C0>"



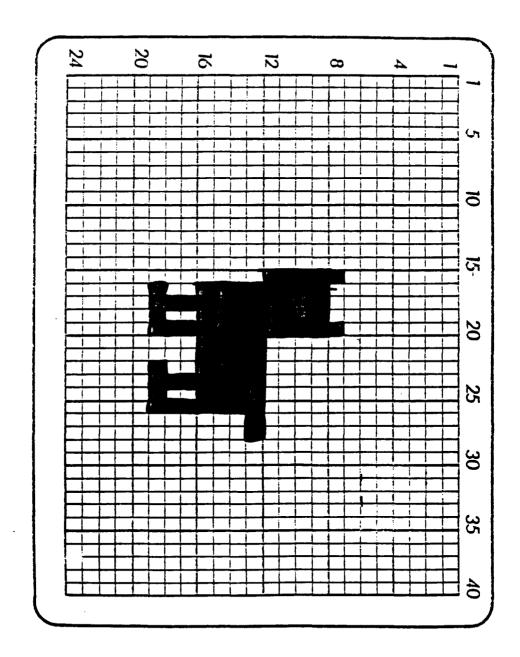
GRADE 4 -	DAY 9
COMPUTER I	LITERACY
WORKSHEET STUDENT'S	9

NAME	
SECTION	<u> </u>

60

ENTER THE FOLLOWING PROGRAM:

- 10 REM ______ <PROGRAM NAME>
- 15 REM <YOUR NAME AND SECTION>
- 20 PRINT "<SHIFT/CLR-HOME>"
- 25 POKE 53280,6 : POKE 53281,6
- 30 FOR X = 1 TO 7
- 40 PRINT
- 50 NEXT X
- 60 PRINT "<15 SP><C9><C1><1 SP><C7><3 SP><C1><1 SP><C0>"
- 70 FOR X = 1 TO 4
- 80 PRINT "<15 SP><C9><C1><5 SP><C0>"
- 90 NEXT X
- 95 PRINT "<16 SP><C9><C1><12 SP><C0>"
- 100 FOR X = 1 TO 3
- 110 PRINT "<16 SP><C9><C1><10 SP><C0>"
- 120 NEXT X
- 130 PRINT "<17 SP><C9><C1><1 SP><C7><1 SP><C1><1 SP><C7><3 SP><C1><1 SP><C7><3 SP><C1><1 SP><C7><1 SP><C0>"
- 140 PRINT "<17 SP><C9><C1><1 SP><C7><1 SP><C1><1 SP><C7><3 SP><C1><1 SP><C7><3 SP><C1><1 SP><C7><1 SP><C0>"
- 150 PRINT "<16 SP><C9><C1><4 SP><C7><2 SP><C1><4 SP><C0>"
- 160 END



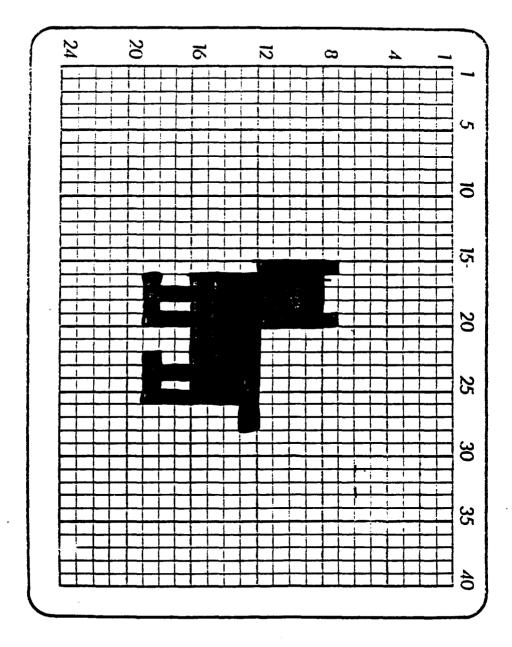
GRADE 4 -	DAY	9
COMPUTER I	.itef	LACY
WORKSHEET	9	
TEACHER'S		7

NAME	71
WALE	
SECTION	

10 REM <PUPPY DOG>

15 REM _____ <YOUR NAME AND SECTION>

- 20 PRINT "<SHIFT/CLR-HOME>"
- 25 POKE 53280,6 : POKE 53281,6
- 30 FOR X = 1 TO 7
- 40 PRINT
- 50 NEXT X
- RO PRINT "<15 SP><C9><C1><1 SP><C7><3 SP><C1><1 SP><C0>"
- 70 FOR X = 1 TO 4
- 80 PRINT "<15 SP><C9><C1><5 SP><C0>"
- 90 NEXT X
- 95 PRINT "<16 SP><C9><C1><12 SP><C0>"
- 100 FOR X = 1 TO 3
- 110 PRINT "<16 SP><C9><C1><10 SP><C0>"
- 120 NEXT X
- 130 PRINT "<17 SP><C9><C1><1 SP><C7><1 SP><C1><1 SP><C7><3 SP><C1><1 SP><C7><3 SP><C1><1 SP><C7><1 SP><C0>"
- 140 PRINT "<17 SP><C9><C1><1 SP><C7><1 SP><C1><1 SP><C7><3 SP><C1><1 SP><C7><3 SP><C1><
- 150 PRINT "<16 SP><C9><C1><4 SP><C7><2 SP><C1><4 SP><C0>"
- 160 END



GRADE 4 -	DAY	9	
COMPUTER I	ITE	RACI	7
WORKSHEET	9A_	FOR	EMERSON
STUDENT'S	COP	Y	

NAME .	13
SECTI	ON

70

ENTER THE FOLLOWING PROGRAM:

10 REM <PROGRAM NAME>

15 REM < YOUR NAME AND SECTION>

20 PRINT "<SHIFT/CLR-HOME>"

25 POKE 53280,2 : POKE 53281,2

30 FOR X = 1 TO 4

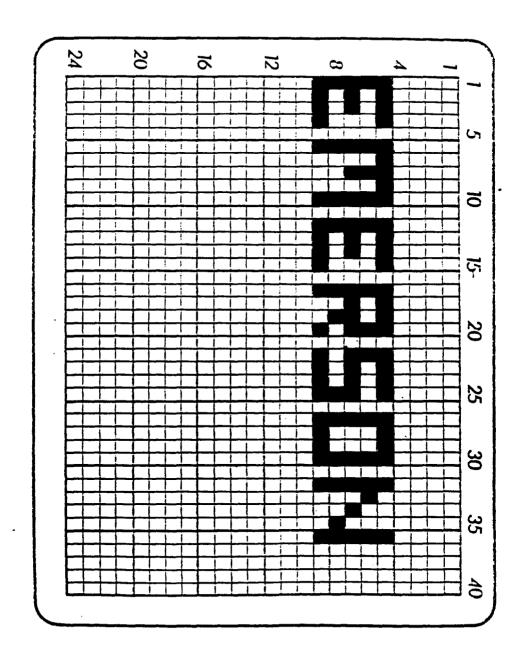
40 PRINT

50 NEXT X

- 60 PRINT "<C9><C7><4 SP><C3><1 SP><C7><5 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><6 SP><C3><1 SP><C7><6 SP><C3><1 SP><C
- 70 PRINT "<C9><C7><1 SP><C3><4 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 80 PRINT "<C9><C7><3 SP><C3><2 SP><C7><1 SP><C3><1 SP><C7><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C7><1 SP><C7><1 SP><C7><1 SP><C7><1 SP><C7><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 90 PRINT "<C9><C7><1 SP><C3><3 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 100 PRINT "<C9><C7><4 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><

GRADE 4 - DAY 9 COMPUTER LITERACY WORKSHEET 9A STUDENT'S COPY #2

NAME	74
SECTION	



GRADE 4 - DAY 9
COMPUTER LITERACY
WORKSHEET 9A FOR HIAWATHA
STUDENT'S COPY

NAME	
SECTION	

--

ENTER THE FOLLOWING PROGRAM:

10 REM <PROGRAM NAME>

15 REM < YOUR NAME AND SECTION>

20 PRINT "<SHIFT/CLR-HOME>"

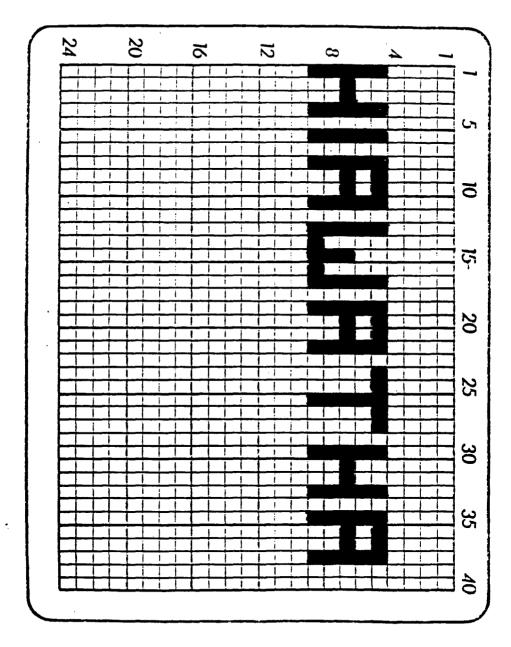
25 POKE 53280,2 : POKE 53281,2

30 FOR X = 1 TO 4

40 PRINT

50 NEXT X

- 60 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 80 PRINT "<C9><C7><4 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C3><1 SP><C7><4 SP><C3><1 SP><C
- 90 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><1 SP><C
- 100 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><



GRADE 4 -	DA?	Y 9	
COMPUTER I	LITI	ERACY	?
WORKSHEET	9A	FOR	IRVING
STUDENT'S	COL	PY	

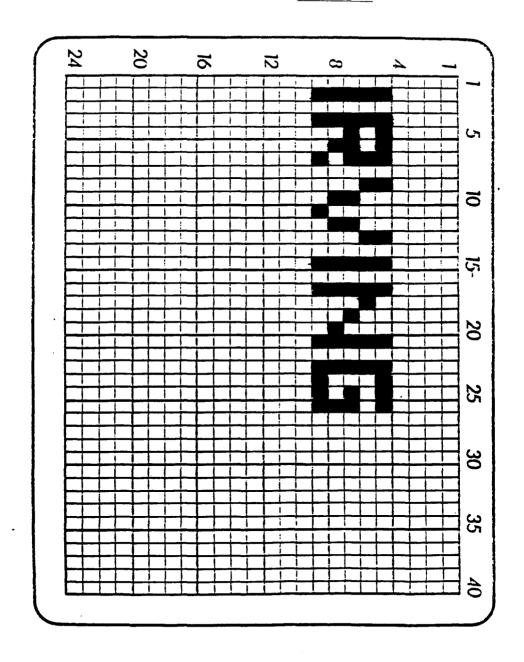
NAME	
SECTION	

77

ENTER THE FOLLOWING PROGRAM:

10 REM	< PROGRAM	NAME>
--------	-----------	-------

- 15 REM <YOUR NAME AND SECTION>
- 20 PRINT "<SHIFT/CLR-HOME>"
- 25 POKE 53280,2 : POKE 53281,2
- 30 FOR X = 1 TO 4
- 40 PRINT
- 50 NEXT X
- 60 PRINT "<1 SP><C9><C7><1 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><1 SP><C3><3 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1
- 70 PRINT "<1 SP><C9><C7><1 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><3 SP><C7><1 SP><C3><1 SP><C3><1
- 80 PRINT "<1 SP><C9><C7><1 SP><C3><1 SP><C7><4 SP><C3><2 SP><C7><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1
- 90 PRINT "<1 SP><C9><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1
- 100 PRINT "<1 SP><C9><C7><1 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C7><3 SP><C7><1 SP><C3><3 SP><C7><1 SP><C3><4 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><



GRADE 4 - COMPUTER I	DAY	9 RACY	,	
WORKSHEET	9A	FOR	KOMENSK	Y

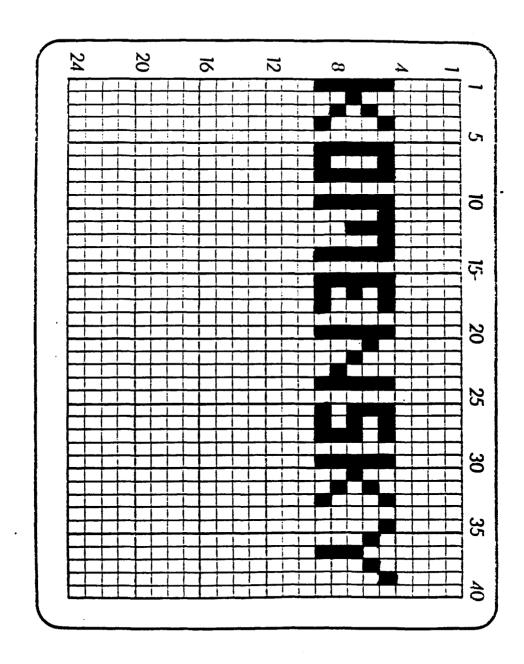
NAME	
SECTION	

~^

ENTER THE FOLLOWING PROGRAM:

10 REM <PROGRAM NAME>

- 15 REM < YOUR NAME AND SECTION>
- 20 PRINT "<SHIFT/CLR-HOME>"
- 25 POKE 53280,2 : POKE 53281,2
- 30 FOR X = 1 TO 4
- 40 PRINT
- 50 NEXT X
- 60 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C7><3 SP><C3><1 SP><C7><3 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 70 PRINT "<C9><C7><1 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><3 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 80 PRINT "<C9><C7><2 SP><C3><3 SP><C7><1 SP><C3><1 SP><C7><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C7><1 SP><C7><1 SP><C7><1 SP><C7><1 SP><C7><1 SP><C7><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C
- 90 PRINT "C9>C7>C1 SP>C3>C1 SP>C7>C1 SP>C3>C2 SP>C7>C1 SP>C3>C1 SP>C1 SP>C1
- 100 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><3 SP><C7><3 SP><C3><1 SP><C7><3 SP><C3><1 SP><

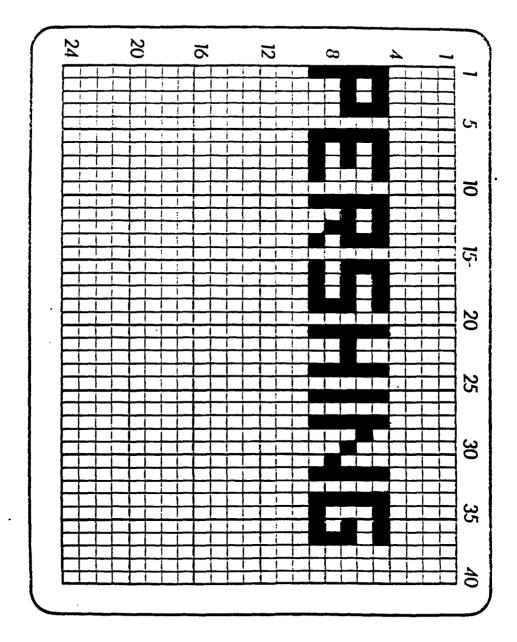


GRADE 4 - COMPUTER I	JITE	CRACY	7
WORKSHEET STUDENT'S	9A	FOR	PERSHING

\14\ <i>6</i>		81
NAME		
SECTI	ON	

10	REM	<program name=""></program>
10		

- 15 REM <YOUR NAME AND SECTION>
- 20 PRINT "<SHIFT/CLR-HOME>"
- 25 POKE 53280,2 : POKE 53281,2
- 30 FOR X = 1 TO 4
- 40 PRINT
- 50 NEXT X
- 60 PRINT "<C9><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C
- 70 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><4 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><4 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C
- 80 PRINT "<C9><C7><4 SP><C3><1 SP><C7><3 SP><C3><2 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 90 PRINT "<C9><C7><1 SP><C3><4 SP><C7><1 SP><C3><4 SP><C7><1 SP><C3><1 SP><C3><4 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><2 SP><C7><2 SP><C7><2 SP><C3><2 SP><C7><2 SP><C3><2 SP><C7><2 SP><C3><2 SP><C3><2 SP><C7><2 SP><C3><2 SP><C3><2 SP><C7><2 SP><C3><2 SP><C
- 100 PRINT "<C9><C7><1 SP><C3><4 SP><C7><4 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><



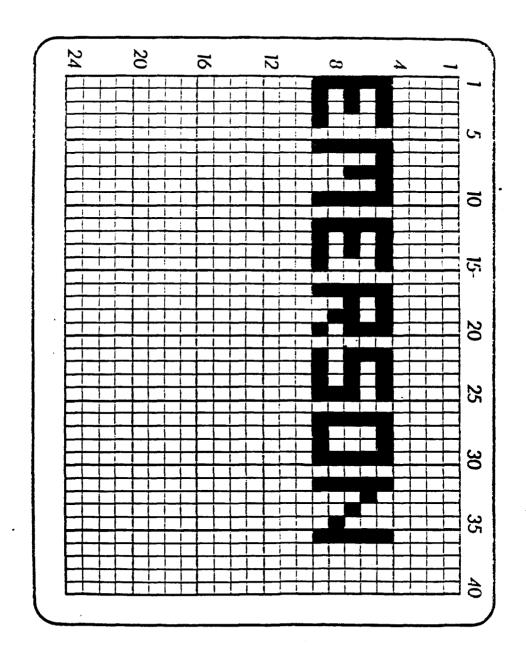
GRADE 4 -	DAY	9	
COMPUTER	LITE	RACY	<i>.</i>
WORKSHEET	9A	FOR	EMERSON
TEACHER'S			

			83
NAME _	.	 	
SECTIO	N		

- 10 REM EMERSON SCHOOL PROGRAM
- 15 REM < YOUR NAME AND SECTION>
- 20 PRINT "<SHIFT/CLR-HOME>"
- 25 POKE 53280,2 : POKE 53281,2
- 30 FOR X = 1 TO 4
- 40 PRINT
- 50 NEXT X
- 60 PRINT "<C9><C7><4 SP><C3><1 SP><C7><5 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 70 PRINT "<C9><C7><1 SP><C3><4 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 80 PRINT "<C9><C7><3 SP><C3><2 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 90 PRINT "<C9><C7><1 SP><C3><3 SP><C7><1 SP><C3><3 SP><C7><1 SP><C3><1 SP><C3><5 SP><C7><1 SP><C3><5 SP><C7><1 SP><C3><5 SP><C7><1 SP><C3><5 SP><C7><6 SP><C7><6 SP><C3><6 SP><C7><6 SP><C7><6 SP><C3><7 SP><C
- 100 PRINT "<C9><C7><4 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><

GRADE 4 - DAY 9 COMPUTER LITERACY WORKSHEET 9A TEACHER'S COPY #2

	04
name	
SECTION	

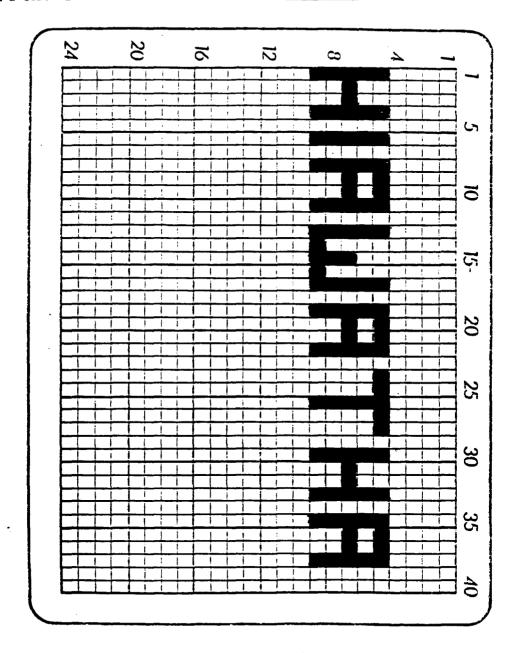


GRADE 4 -	DAY	9	
COMPUTER I WORKSHEET	ITE.	(RAC) FOR	(HTAWATHA
TEACHER'S	COF	Y	

NAME	00
SECTION	

```
10 REM HIAWATHA SCHOOL PROGRAM
```

- 15 REM < YOUR NAME AND SECTION>
- 20 PRINT "<SHIFT/CLR-HOME>"
- 25 POKE 53280,2 : POKE 53281,2
- 30 FOR X = 1 TO 4
- 40 PRINT
- 50 NEXT X
- 60 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 70 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><3 SP><C7><1 SP><C3><1 SP><C
- 80 PRINT "<C9><C7><4 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 90 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C7><1 SP><C3><2 SP><C3><2 SP><C7><1 SP><C3><2 SP><C
- 100 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><



GRADE 4 - DAY 9
COMPUTER LITERACY
WORKSHEET 9A FOR IRVING
TEACHER'S COPY

NAME	 87
SECTION	

ENTER THE FOLLOWING PROGRAM:

10 REM ______IRVING SCHOOL PROGRAM

15 REM < YOUR NAME AND SECTION>

20 PRINT "<SHIFT/CLR-HOME>"

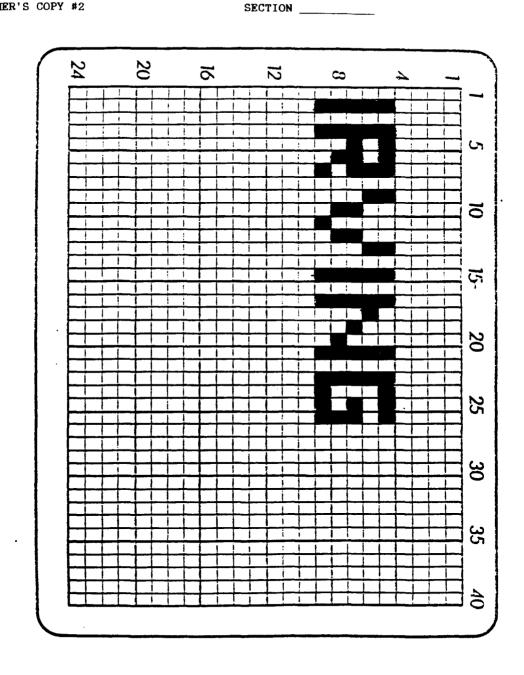
25 POKE 53280,2 : POKE 53281,2

30 FOR X = 1 TO 4

An PRINT

50 NEXT X

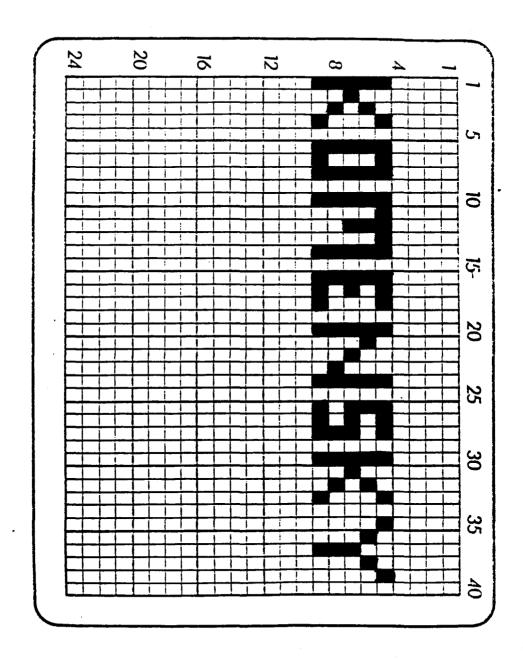
- 60 PRINT "<1 SP><C9><C7><1 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1
- 70 PRINT "<1 SP><C9><C7><1 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><3 SP><C7><1 SP><C3><1 SP><C3><1
- 80 PRINT "<1 SP><C9><C7><1 SP><C3><1 SP><C7><4 SP><C3><2 SP><C7><1 SP><C3><3 SP><C7><1 SP><C3><1 SP><C3><1
- 90 PRINT "<1 SP><C9><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><2 SP><C7><2 SP><C3><2 SP><C7><2 SP><C3><2 SP><C3><2
- 100 PRINT "<1 SP><C9><C7><1 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C7><1 SP><C3><3 SP><C7><1 SP><C3><3 SP><C7><1 SP><C3><4 SP><C7><1 SP><C3><4 SP><C7><6 SP><C3><6 SP><C7><6 SP><6 SP><C7><6 SP><6 SP><



GRADE 4 -	DA	7 9	
COMPUTER I	LITI	CRACY	<i>.</i>
WORKSHEET	9A	FOR	KOMENSKY
TEACHER'S	COL	PΥ	

NAME	
SECTION	

- 10 REM KOMENSKY SCHOOL PROGRAM
- 15 REM < YOUR NAME AND SECTION>
- 20 PRINT "<SHIFT/CLR-HOME>"
- 25 POKE 53280,2 : POKE 53281,2
- 30 FOR X = 1 TO 4
- 40 PRINT
- 50 NEXT X
- 60 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C7><3 SP><C3><
 1 SP><C7><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><
 1 SP>
- 70 PRINT "<C9><C7><1 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><3 SP><C7><1 SP><C3><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 80 PRINT "<C9><C7><2 SP><C3><3 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 90 PRINT "<C9><C7><1 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><3 SP><C7><1 SP><C3><1 SP><C
- 100 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C7><3 SP><C3><1 SP><C3><3 SP><C7><1 SP><C3><1 SP><



GRADE 4 -	DAY	7 9	_
COMPUTER I	ITI.	ERACY	, paparitua
WORKSHEET			PERSHING

NAME		 	*	 	
SECTI	ON				

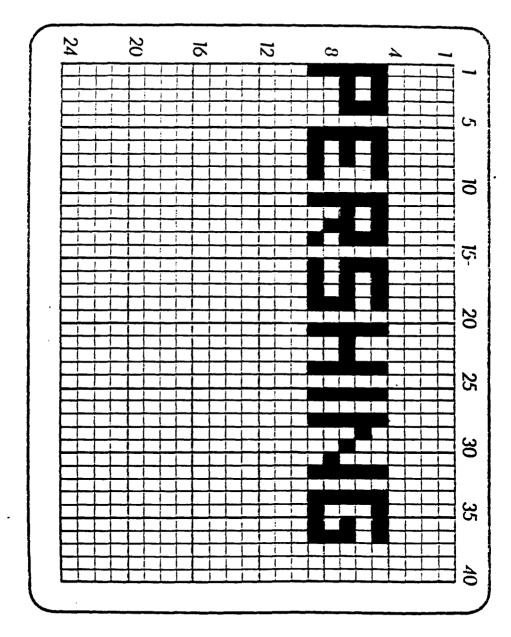
0.1

ENTER THE FOLLOWING PROGRAM:

- 10 REM PERSHING SCHOOL PROGRAM
- 15 REM < YOUR NAME AND SECTION>
- 20 PRINT "<SHIFT/CLR-HOME>"
- 25 POKE 53280,2 : POKE 53281,2
- 30 FOR X = 1 TO 4
- 40 PRINT
- 50 NEXT X
- 60 PRINT "<C9><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C
- 70 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><4 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><4 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C
- 80 PRINT "<C9><C7><4 SP><C3><1 SP><C7><3 SP><C3><2 SP><C7><4 SP><C3><1 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 90 PRINT "<C9><C7><1 SP><C3><4 SP><C7><1 SP><C3><4 SP><C7><1 SP><C3><1 SP><C3><4 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><2 SP><C7><2 SP><C7><2 SP><C3><2 SP><C7><2 SP><C3><2 SP><C3><2 SP><C7><2 SP><C3><3 SP><C7><3 SP><C3><3 SP><C7><3 SP><C3><3 SP><C3><4 SP><C3><5 SP><C
- 100 PRINT "<C9><C7><1 SP><C3><4 SP><C7><4 SP><C3><1 SP><C7><1 SP><C3><
 2 SP><C7><1 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><

GRADE 4 - DAY 9 COMPUTER LITERACY WORKSHEET 9A TEACHER'S COPY #2

	92	
NAME		
SECTI	ION	



LESSON PLAN

GRADE 4 - DAY 10 COMPUTER LITERACY TEACHER'S LESSON PLAN	
INSTRUCTIONAL AIDS:	TOOLS, EQUIPMENT AND MATERIALS:
COPIES OF TEST #2	CHALK, ERASER AND PENCILS
OBJECTIVE, INTRODUCTION, PRESENTATION STUDENT EVALUATION, ADDITIONAL TOP	ION, SUMMARY, STUDENT INVOLVEMENT,
STUDENT EVALUATION, ADDITIONAL TOTAL	

OBJECTIVE FOR THE DAY:

THE STUDENTS WILL REVIEW WITH THE TEACHER THE COMPUTER PROGRAMMING SKILLS AND TAKE A TEST.

INTRODUCTION:

REVIEW WITH THE STUDENTS THE MATERIAL COVERED AT THE PREVIOUS CLASSES AND GIVE A TEST IN THE HOMEROOM.

PRESENTATION:

DISTRIBUTE COPIES OF:

TEST #2 (G4.D10.T2.SC)

ADMINISTER THE TEST.

INSTRUCTIONS FOR THE MATCHING SECTION:

"THERE ARE 12 DEFINITIONS AND 12 WORDS. WRITE THE LETTER A - L ON THE LINE NEXT TO THE CORRECT DEFINITION. EACH LINE IS WORTH ONE POINT."

INSTRUCTIONS FOR THE TRUE AND FALSE SECTION:

"THERE ARE 6 TRUE OR FALSE QUESTIONS. WRITE A "T" OR A "F" ON THE LINE NEXT TO THE PROBLEM NUMBER. EACH LINE IS WORTH ONE POINT."

INSTRUCTIONS FOR PAGE TWO OF THE TEST:

"THE FIRST TWO PROBLEMS ARE WORTH ONE POINT EACH AND THE THIRD PROBLEM IS WORTH 10 POINTS."

LESSON PLAN CONTINUED PAGE 2

GRADE 4 - DAY 10
COMPUTER LITERACY
TEACHER'S LESSON PLAN
OBJECTIVE, INTRODUCTION, PRESENTATION, SUMMARY, STUDENT INVOLVEMENT,
STUDENT EVALUATION, ADDITIONAL TOPIC

SUMMARY:

IF THERE IS TIME AVAILABLE, YOU COULD GO OVER THE TEST.

STUDENT INVOLVEMENT:

THE STUDENTS WILL BE WORKING INDEPENDENTLY ON A TEST.

STUDENT EVALUATION:

THE STUDENTS' TESTS WILL BE EVALUATED GIVING THE APPROPRIATE POINT VALUE FOR EACH CORRECT ANSWER.

ADDITIONAL TOPIC:

CHECK THAT ALL COMPUTERS, MONITORS AND DISK DRIVES ARE TURNED OFF.

COMPUTE	- DAY 10 R LITERACY - DAY 10 'S COPY	NAME		9 5
MATCHIN	: LISTEN TO THE TEACHER'S INST	RUCTIONS.		
1.	THE NAME OF THE COMPUTER LANGUAGE IN THIS CLASS.	GE USED	A.	DISK DRIVE
9	FIVE MAIN PARTS OF A MICROCOMPU	מימים	В.	COMPUTER
2.	USED IN THIS MINI-COURSE.	LEK	C.	BASIC
3.			D.	MONITOR
4.			E.	RETURN
5.			F .	RUN
6.			G.	MEMORY
7	THE KEY YOU MUST PRESS TO ENTER		Н.	LINE NUMBER
	INFORMATION INTO THE COMPUTER'S	MEMORY.	Ι.	LIST
8.	THE COMMAND THAT SHOWS YOU THE I		J.	KEYBOARD
0	THE COMMAND THAT EXECUTES (OR CA		K.	NEW
J.	THE PROGRAM IN THE COMPUTER'S MI	EMORY.	L.	CPU
10.	THE COMMAND THAT ERASES THE PROCINITIES THE COMPUTER'S MEMORY.	GRAM		
11.	IT MUST APPEAR AT THE BEGINNING LINE OF A PROGRAM.	OF EACH		
12.	A MACHINE WHICH PERFORMS TASKS A RATE OF SPEED WITH GREAT ACCURAGE			
TRUE OR	FALSE: LISTEN TO THE TEACHER'S	INSTRUCTIONS.		
13.	PRESSING ONLY THE CLR-HOME KEY (TO THE UPPER LEFT CORNER.	CLEARS THE SCREEN A	ND SEN	IDS THE CURSOR
14.	A PROGRAM IS A LIST OF INSTRUCT: FOLLOW.	IONS (STATEMENTS) F	OR THE	COMPUTER TO
15.	THE WORD THAT IS FOUND IN THE LA	AST LINE OF A PROGR	AM IS:	"STOP".
16.	THE MESSAGE THE COMPUTER PRINTS "?SYNTAX ERROR".	WHEN IT DOES NOT U	NDERSI	AND YOU IS:

__17. THE LITTLE SQUARE THAT MOVES ALONG THE SCREEN SHOWING WHERE THE NEXT LETTER YOU TYPE GOES IS CALLED THE CURSOR.

____18. ALL COMMANDS ARE THE SAME FOR ANY COMPUTER.

NAME	96
SECTION	· · ·
THE BLANKS WITH THE CORRECT	ANSWER/RESPONSE:
TURN ON THE REVERSE COLOR,	(RVS ON), ARE:
KEY AND THE NUMBER	_•
TURN OFF THE REVERSE COLOR,	(RVS OFF), ARE:
KEY AND THE NUMBER	
EED ARE:	
WHITE> ====> <c2>,</c2>	<blue> ====> <c7></c7></blue>
1	NAME

COMPUTER LITERACY	NAME		· · · · · · · · · · · · · · · · · · ·
TEST #2 - DAY 10 TEACHER'S COPY	SECTION		
MATCHING: LISTEN TO THE TEACH	ER'S INSTRUCTIONS.		
C 1. THE NAME OF THE COMPUT	ER LANGUAGE USED	A .	DISK DRIVE
<u></u>	T CDCCCMDUTED	В.	COMPUTER
J 2. FIVE MAIN PARTS OF A MICROCOMP USED IN THIS MINI-COURSE.		C.	BASIC
<u>D</u> 3.		D.	MONITOR
<u>A</u> 4.		E.	RETURN
<u>G</u> 5.		F.	RUN

7. THE KEY YOU MUST PRESS TO ENTER
INFORMATION INTO THE COMPUTER'S MEMORY.

I. . . . THE COMMAND THAT SHOWS YOU THE PROGRAM

I 8. THE COMMAND THAT SHOWS YOU THE PROGRAM J. KEYBOARD THAT IS IN THE COMPUTER'S MEMORY.

K. NEW

F 9. THE COMMAND THAT EXECUTES (OR CARRIES OUT)
THE PROGRAM IN THE COMPUTER'S MEMORY.

L. CPU

G.

H

MEMORY

LIST

LINE NUMBER

97

K 10. THE COMMAND THAT ERASES THE PROGRAM
IN THE COMPUTER'S MEMORY.

H 11. IT MUST APPEAR AT THE BEGINNING OF EACH LINE OF A PROGRAM.

B 12. A MACHINE WHICH PERFORMS TASKS AT A HIGH RATE OF SPEED WITH GREAT ACCURACY.

TRUE OR FALSE: LISTEN TO THE TEACHER'S INSTRUCTIONS.

_F__13. PRESSING ONLY THE CLR-HOME KEY CLEARS THE SCREEN AND SENDS THE CURSOR TO THE UPPER LEFT CORNER.

T 14. A PROGRAM IS A LIST OF INSTRUCTIONS (STATEMENTS) FOR THE COMPUTER TO FOLLOW.

_F _ 15. THE WORD THAT IS FOUND IN THE LAST LINE OF A PROGRAM IS: "STOP".

T 16. THE MESSAGE THE COMPUTER PRINTS WHEN IT DOES NOT UNDERSTAND YOU IS: "?SYNTAX ERROR".

T 17. THE LITTLE SQUARE THAT MOVES ALONG THE SCREEN SHOWING WHERE THE NEXT LETTER YOU TYPE GOES IS CALLED THE CURSOR.

_F 18. ALL COMMANDS ARE THE SAME FOR ANY COMPUTER.

GRADE 4 - DAY 10

<u>L</u> 6.

GRADE 4 - DAY 10 COMPUTER LITERACY TEST #2 - DAY 10 TEACHER'S COPY - PAGE 2	NAME	•
INSTRUCTIONS: FILL-IN	THE BLANKS WITH THE CORRECT A	INSWER/RESPONSE:
1. THE TWO KEYS PRESSED TO THECONTROL	TURN ON THE REVERSE COLOR, (KEY AND THE NUMBER 9	
2. THE TWO KEYS PRESSED TO THECONTROL	TURN OFF THE REVERSE COLOR, KEY AND THE NUMBERO	
3. WRITE A LINE OF PROGRAMM WHITE COLOR BAR 5 SPACES	ING THAT WILL MAKE A RED COLO LONG AND A BLUE COLOR BAR 5	
SOME OF THE CODES YOU WILL NE	EED ARE:	
<red> ====> <c3>, <</c3></red>	WHITE> ====> <c2>,</c2>	<blue> ====> <c7></c7></blue>
20 PRINT " <c9><c3><5 SPACES</c3></c9>	S> <c2><5 SPACES><c7><5 SPACES</c7></c2>	> <co>" (10 PTS)</co>

SUGGESTED GRADING:

A = 27 TO 30 PTS B = 24 TO 26 PTS C = 21 TO 23 PTS D = 18 TO 20 PTS F = 0 TO 17 PTS

DISTRICT 100 FIFTH GRADE COMPUTER CURRICULUM

CHARLES S. SAUNDERS
SUMMER OF 1987

OBJECTIVES FOR THE FIFTH GRADE COMPUTER CLASSES

- DAY 1: THE STUDENTS WILL REVIEW THE COMPUTER PROGRAMMING TAUGHT IN FOURTH GRADE, BE GIVEN THEIR MAJOR GRAPHICS PROGRAM ASSIGNMENT AND BE PREPARED FOR A QUIZ ON DAY 2.
- DAY 2: THE STUDENTS WILL REVIEW THE OPERATING PROCEDURES OF THE COMMODORE COMPUTER AND ENTER PROGRAMS INTO THE COMPUTER, USE THE "GOTO" COMMAND, USE THE COLOR GRAPHICS COMMANDS AND BE PREPARED FOR A QUIZ ON DAY 3.
- DAY 3: THE STUDENTS WILL LEARN HOW TO CONTROL THE OUTPUT OF A PROGRAM BY USING THE "TAB" AND DOWN COMMANDS AND BE PREPARED FOR A QUIZ ON DAY
- DAY 4: THE STUDENTS WILL PRACTICE IDENTIFYING ERRORS IN A PROGRAM, USE THE "FOR-NEXT" COMMAND AND BE PREPARED FOR A QUIZ ON DAY 5.
- DAY 5: THE STUDENTS WILL LEARN HOW THE "GOTO", "IF-THEN", AND COUNTER COMMANDS CONTROL THE OUTPUT OF A PROGRAM BY USING THE COMMANDS IN SOME PROGRAMS AND BE PREPARED FOR A QUIZ ON DAY 6.
- DAY 6: THE STUDENTS WILL USE THE "LOAD", "SAVE" AND "POKE" COMMANDS. THE STUDENTS WILL WORK ON A SAMPLE GRAPHICS PROGRAM, START WRITING THEIR OWN GRAPHICS PROGRAMS AND TAKE HOME A QUIZ DUE ON DAY 7.
- DAY 7: THE STUDENTS WILL USE THE SAVE & REPLACE COMMAND AND THE "VERIFY"
 COMMAND. THE STUDENTS WILL WORK ON SAMPLE GRAPHICS PROGRAM, CONTINUE
 WRITING THEIR OWN GRAPHICS PROGRAMS AND BE PREPARED FOR A TEST ON DAY
 10
- DAY 8: THE STUDENTS WILL WORK ON SAMPLE GRAPHICS PROGRAM, CONTINUE WRITING THEIR OWN GRAPHICS PROGRAMS AND BE PREPARED FOR A TEST ON DAY 10.
- DAY 9: THE STUDENTS WILL FINISH WRITING THEIR OWN GRAPHICS PROGRAMS, WORK ON SAMPLE GRAPHICS PROGRAM AND BE PREPARED FOR A TEST ON DAY 10.
- DAY 10: THE STUDENTS WILL REVIEW WITH THE TEACHER THE COMPUTER PROGRAMMING SKILLS AND TAKE A TEST.

DAILY GOALS

DAY	TERMS	RESERVED WORDS OR COMMANDS	STUDENT ACTIVITIES
1	KEYBOARD MEMORY; DISK DRIVE CPU;	CLR-HOME SHIFT/CLR-HOME NEW LIST REM PRINT TAB(#) END RUN	REVIEW THE FOURTH GRADE CURRICULUM WRITE OUT A SAMPLE PROGRAM RECEIVE MAJOR GRAPHICS PROGRAM ASSIGNMENT
2	NONE	GOTO REVERSE ON REVERSE OFF	QUIZ REVIEW ENTERING, RUNNING AND LISTING A PROGRAM CLEAR THE SCREEN ERASE THE MEMORY
3	DOWN COMMAND	INVERSE Q	QUIZ EDIT A PROGRAM MOVE TEXT AROUND THE SCREEN
4	NONE	FOR - NEXT	QUIZ FIND ERRORS IN A PROGRAM (TAKE-HOME) (DUE DAY 5) USE THE FOR - NEXT COMMAND
5	LOOP COUNTER	IF - THEN X = X + 1	COLLECT PROGRAM AND GIVE QUIZ USE THE IF - THEN, X = X + 1 AND GOTO COMMANDS CHECK MAJOR GRAPHICS PICTURE

C. DAILY. GOALS

DAY	TERMS	RESERVED WORDS OR COMMANDS	STUDENT ACTIVITIES
6	POKE COMMANDS	POKE LOAD SAVE	GIVE QUIZ AND HANDOUT TAKE-HOME QUIZ (DUE DAY 7) WRITE COLOR GRAPHICS PROGRAM FROM A PICTURE AND WORK ON MAJOR GRAPHICS PROGRAM
7	NONE	SAVE & REPLACE VERIFY	WRITE COLOR GRAPHICS PROGRAM FROM A PICTURE AND WORK ON MAJOR GRAPHICS PROGRAM
8	NONE	NONE	WRITE COLOR GRAPHICS PROGRAM FROM A PICTURE AND WORK ON MAJOR GRAPHICS PROGRAM
9	NONE	NONE	WORK ON MAJOR GRAPHICS PROGRAM OR WRITE COLOR GRAPHICS PROGRAM FROM A PICTURE
10	NONE	NONE	TEST

C. DAILY. GOALS

THE FILES ON THE DISK ARE CATALOGUED IN THE ORDER IN WHICH THEY ARE TO BE USED. THERE IS A DIRECTORY AT THE BACK WHICH REFLECTS WHICH FILES ARE LOCATED ON EACH SIDE OF THE DISK. THERE IS A TEACHER'S LESSON PLAN FOR EACH DAY, ALONG WITH THE NECESSARY QUIZZES AND HANDOUTS FOR THE STUDENTS WITH A TEACHER'S VERSION OF THE SAME QUIZZES AND HANDOUTS WITH A FEW ADDITIONAL NOTES. FOR VARIETY, THERE MAY BE ONE OR TWO VERSIONS OF EACH QUIZ TO BE GIVEN TO THE STUDENTS AS OUTLINED IN THE LESSON PLANS.

AFTER THIS PAGE IN THIS MANUAL, THE FILES THAT ARE PRINTED IN THE DRAFT MODE (LIGHT) ARE FOR THE TEACHER, AND THE FILES THAT ARE PRINTED IN THE NEAR LETTER QUALITY MODE (DARK) ARE FOR THE STUDENTS.

THE DISTRICT'S COMPUTER COMMITTEE WOULD APPRECIATE HAVING CHANGES, IMPROVEMENTS AND/OR ADDITIONS TO THIS CURRICULUM DONE IN SUCH A WAY THAT THE INFORMATION STORED ON THIS DISK IS UPDATED TO BE CONSISTENT WITH THE MATERIAL BEING TAUGHT TO THE STUDENTS. BY WORKING WITH THE DISTRICT'S COMPUTER COMMITTEE THIS GOAL CAN BE ACHIEVED.

LESSON PLAN

NSTRUCTIONAL AIDS:	TOOLS, EQUIPMENT AND MATERIALS
COPIES OF THE NECESSARY HANDOUTS *	CHALK, ERASER AND PENCILS
A TRANSPARENCY OF WORKSHEET #1 (TEACHER'S VERSION)	OVERHEAD PROJECTOR

OBJECTIVE FOR THE DAY:

THE STUDENTS WILL REVIEW THE COMPUTER PROGRAMMING TAUGHT IN FOURTH GRADE, BE GIVEN THEIR MAJOR GRAPHICS PROGRAM ASSIGNMENT AND BE PREPARED FOR A QUIZ ON DAY 2

INTRODUCTION:

INTRODUCE YOURSELF AND COMPLETE WORKSHEET #1 WITH THE STUDENTS IN THE HOMEROOM.

PRESENTATION:

IT IS IMPORTANT TO PLAN YOUR TIME SO THERE WILL BE ENOUGH TIME LEFT OVER TO COMPLETE THE MATERIAL COVERED IN THE ADDITIONAL TOPIC SECTION ALSO.

DISTRIBUTE COPIES OF:

WORKSHEET #1 (G5.D01.W1.SC) STUDENT'S COPY

USING AN OVERHEAD PROJECTOR AND A TRANSPARENCY OF THE TEACHER'S COPY OF WORKSHEET #1, READ EACH TERM/DEFINITION AND HAVE THE STUDENTS WRITE THE TERM/DEFINITION ON THE APPROPRIATE LINE ON THE WORKSHEET. EMPHASIZE THAT THE STUDENTS SHOULD STUDY THESE DEFINITIONS SOME TIME BEFORE THE NEXT CLASS MEETING BECAUSE THERE WILL BE A QUIZ ON THE TWENTY DEFINITIONS.

DISTRIBUTE COPIES OF:

WORKSHEET #1 (G5.D01.W1.TC) TEACHER'S COPY

AFTER THE STUDENT'S COMPLETE WORKSHEET #1, COLLECT THE STUDENT'S COPY FOR GRADING AND EXCHANGE IT FOR A TEACHER'S COPY SO THE STUDENTS HAVE A WORKSHEET TO STUDY FROM.

THIS TOPIC WILL ALSO BE ON THE QUIZ TOMORROW, SO IT IS IMPORTANT TO COVER THIS MATERIAL ON DAY 1. HAVE THE STUDENTS TURN THE TEACHER'S COPY OF WORKSHEET #1 OVER, AND ON THE BACK HAVE THE STUDENTS WRITE THE PROGRAM WITH THE PROPER INFORMATION SUBSTITUTED FOR THE COMMENTS FOUND INSIDE THE < > BRACKETS. (PROGRAM IS IN THE ADDITIONAL TOPIC SECTION.)

G5. D01. LP. TC

LESSON PLAN CONTINUED PAGE 2

GRADE 5 - DAY 1 COMPUTER LITERACY TEACHER'S LESSON PLAN

OBJECTIVE, INTRODUCTION, PRESENTATION, SUMMARY, STUDENT INVOLVEMENT, STUDENT EVALUATION, ADDITIONAL TOPIC

SUMMARY:

REVIEW THE MATERIAL DISCUSSED DURING TODAY'S CLASS MEETING.

STUDENT INVOLVEMENT:

THE STUDENTS WILL WORK TOWARD CORRECTLY COMPLETING A WORKSHEET.

STUDENT EVALUATION:

THE STUDENTS' PROGRESS ON THIS WORKSHEET SHOULD BE EVALUATED AND RECORDED GIVING ONE POINT FOR A EACH CORRECTLY COMPLETED TERM/DEFINITION.

ADDITIONAL TOPIC:

- 10 REM NAME AND ADDRESS PROGRAM
- 20 PRINT "<SHIFT/CLR-HOME>
- 30 PRINT "<YOUR FIRST AND LAST NAME>"
- 40 PRINT "<STREET ADDRESS >"
- 50 PRINT "<CITY, STATE ZIPCODE>"
- 60 END

DISCUSS THE MAJOR GRAPHICS PROGRAM ASSIGNMENT. HAVE SOME GOOD AND NOT SO GOOD SAMPLES OF GRAPHICS TO SHOW THE STUDENTS. THE STUDENTS SHOULD START THINKING OF A PICTURE AND BEGIN COLORING IN A STUDENT HANDOUT #1 SO THEY WILL HAVE IT DONE BY DAY 5.

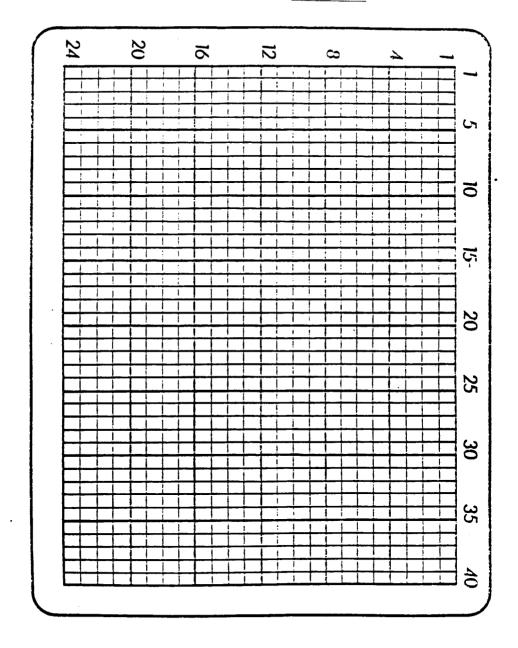
DISTRIBUTE COPIES OF:

STUDENT HANDOUT #1 (G5.D01.SH1.TS)

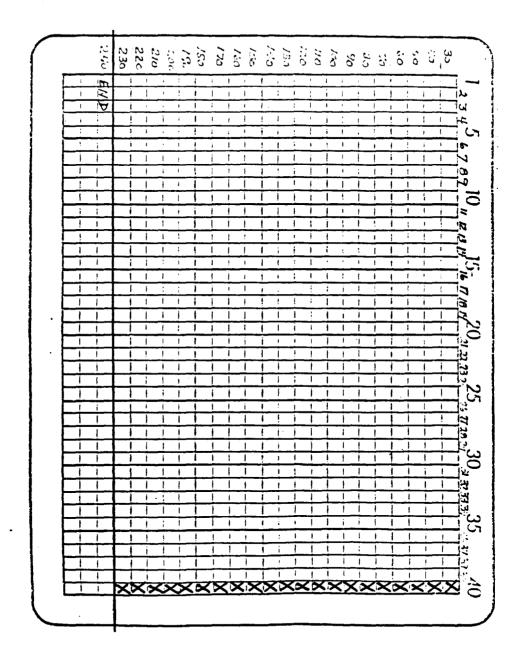
LEAVE A FOLDER WITH EXTRA COPIES OF STUDENT HANDOUT #1 IN THE HOMEROOM.

G5.D01.LP.TC

SECTION



					107	7
NAME		 		 	 	
SECTI	ON					



COMP	E 5 - DAY 1 UTER LITERACY SHEET 1 ENT'S COPY		NAME	
1.		_ -	A MACHINE WHICH PERFORMS TASKS AT GREAT ACCURACY.	A HIGH SPEED WITH
	THERE ARE FIVE	PARTS	TO A COMPUTER SYSTEM:	
2.		_	A DEVICE WITH KEYS USED TO INPUT COMPUTER SYSTEM.	
3. 4.		_	A T.VLIKE UNIT CONNECTED TO PAR SYSTEM. A DEVICE THAT IS CONNECTED TO THE	COMPUTER SYSTEM AND
5.			ALLOWS THE LOADING AND SAVING O A PLACE IN THE COMPUTER WHERE A P	
6.			THE INITIALS TO: CENTRAL PROCESSI	NG UNIT.
7.	cursor			
8.	return key _			
9.	clr-home			
10.	shift/clr-home_			
11.	program _			
12.	basic			

13.

14.

REM

15. PRINT

16. TAB(#)

17. END

18. RUN

19. LIST

20. NEW

G5.D01.W1.SC

line number

GRADE 5 -	DAY	1
COMPUTER I	JITE	LACY
WORKSHEET	1	
TEACHER'S	COPY	?

NAME		109
NAME		
CPCT1	ON	•

TEAC	HER D COIT	DECITOR
1.	computer	- A MACHINE WHICH PERFORMS TASKS AT A HIGH SPEED WITH GREAT ACCURACY.
	THERE ARE FIV	E PARTS TO A COMPUTER SYSTEM:
2.	keyboard	- A DEVICE WITH KEYS USED TO INPUT INFORMATION INTO THE COMPUTER SYSTEM.
3.	monitor	- A T.VLIKE UNIT CONNECTED TO PART OF THE COMPUTER SYSTEM.
4.		- A DEVICE THAT IS CONNECTED TO THE COMPUTER SYSTEM AND ALLOWS THE LOADING AND SAVING OF PROGRAMS
5.		- A PLACE IN THE COMPUTER WHERE A PROGRAM IS STORED.
6.	_cpu	- THE INITIALS TO: CENTRAL PROCESSING UNIT.
7.	cursor	BLINKING BOX THAT SHOWS WHERE YOU ARE ON THE SCREEN
8.	return key	KEY PRESSED TO ENTER INFORMATION INTO THE MEMORY
9.	clr-home	SENDS THE CURSOR TO THE UPPER LEFT CORNER (HOME)
10.	shift/clr-hom	eCLEARS THE SCREEN AND SENDS THE CURSOR HOME
11.	program	GROUP OF STATEMENTS FOR THE COMPUTER TO FOLLOW
12.	basic	THE COMPUTER LANGUAGE USED IN THIS CLASS
13.	line number	APPEARS AT THE BEGINNING OF EACH LINE OF A PROGRAM
14.	REM	COMMAND TO INCLUDE REMARKS THAT DON'T CHANGE THE PROGRAM
15.	PRINT	COMMAND TO DISPLAY CHARACTERS IN THE OUTPUT OF A PROGRAM
16.	TAB(#)	COMMAND USED TO MOVE OUTPUT TO THE RIGHT ON THE SCREEN
17.	END	COMMAND USED ON THE LAST LINE OF A PROGRAM
18.	RUN	COMMAND TO EXECUTE (START) THE PROGRAM
19.	LIST	COMMAND TO DISPLAY THE PROGRAM IN MEMORY ON THE SCREEN
20 .	NEW	COMMAND TO ERASE THE CURRENT PROGRAM FROM MEMORY
G5. D	01.W1.TC	

GRADE 5 - DAY 2 COMPUTER LITERACY TEACHER'S LESSON PLAN	
INSTRUCTIONAL AIDS: COPIES OF THE NECESSARY HANDOUTS AND QUIZ 1 - DAY 1	TOOLS, EQUIPMENT AND MATERIALS: CHALK, ERASER AND PENCILS
OBJECTIVE, INTRODUCTION, PRESENTATION, S STUDENT EVALUATION, ADDITIONAL TOPIC	SUMMARY, STUDENT INVOLVEMENT,

OBJECTIVE FOR THE DAY:

THE STUDENTS WILL REVIEW THE OPERATING PROCEDURES OF THE COMMODORE COMPUTER AND ENTER PROGRAMS INTO THE COMPUTER, USE THE "GOTO" COMMAND, USE THE COLOR GRAPHICS COMMANDS AND BE PREPARED FOR A QUIZ ON DAY 3.

INTRODUCTION:

REVIEW WITH THE STUDENTS THE MATERIAL COVERED AT THE PREVIOUS CLASS AND GIVE A QUIZ IN THE HOMEROOM.

PRESENTATION:

DISTRIBUTE COPIES OF:

WORKSHEET #2 (G5.D02.W2.SC)

READING FROM THE TEACHER'S COPY OF THE WORKSHEET #2, HAVE THE STUDENTS PROCEED WITH STEP 1. EMPHASIZE TO THE STUDENTS THAT THEY SHOULD REVIEW THE MATERIAL COVERED DURING THE CLASS PERIOD SOME TIME BEFORE THE NEXT CLASS MEETING BECAUSE THERE WILL BE A QUIZ ON ANY OF THE MATERIAL, NEXT TIME WE MEET. ASSIST THE STUDENTS ON WORKSHEET #2 BY CHECKING OFF AND RECORDING THE COMPLETION OF STEP 1. HAVE THE STUDENTS DO STEPS 3 - 5. WHEN THE STUDENTS ARE READY FOR STEP 6, ASSIST THE STUDENTS IN DOING STEPS 7 - 10 BY ASKING THE NECESSARY QUESTIONS.

WHEN THE STUDENTS ARE DONE WITH WORKSHEET #2,

DISTRIBUTE COPIES OF:

STUDENT HANDOUT #2 (G5.D02.SH2.SC)
WORKSHEET #2A (G5.D02.W2A.SC)

REMIND THE STUDENTS THAT THE < > BRACKETS ARE USED TO INFORM THEM OF INFORMATION THAT SHOULD BE ENTERED USING THE PROPER KEY STROKES OR THE APPROPRIATE DATA.

G5.DO2.LP.TC

LESSON PLAN CONTINUED PAGE 2

GRADE 5 - DAY 2
COMPUTER LITERACY
TEACHER'S LESSON PLAN
OBJECTIVE, INTRODUCTION, PRESENTATION, SUMMARY, STUDENT INVOLVEMENT,
STUDENT EVALUATION, ADDITIONAL TOPIC

SUMMARY:

REVIEW THE MATERIAL DISCUSSED DURING TODAY'S CLASS MEETING.
REVIEW WHAT THE STUDENTS SHOULD BE WORKING ON FOR THEIR MAJOR GRAPHICS PROGRAM.
(PICTURE DUE DAY 5)

STUDENT INVOLVEMENT:

THE STUDENTS WILL BE WORKING INDEPENDENTLY ON A QUIZ.
THE STUDENTS WILL BE WORKING ON A COMMODORE WITH A PARTNER.
THE STUDENTS WILL WORK TOWARD CORRECTLY COMPLETING A WORKSHEET.

STUDENT EVALUATION:

THE STUDENTS' QUIZZES WILL BE EVALUATED GIVING ONE POINT FOR EACH CORRECT ANSWER.

THE STUDENTS' PROGRESS ON THE WORKSHEETS SHOULD BE EVALUATED AND RECORDED ON THE BASIS OF TEN POINTS FOR A CORRECTLY COMPLETED WORKSHEET. (1-1/2) PAGES

ADDITIONAL TOPIC:

IF THE STUDENTS FINISH WITH WORKSHEET #2 AND THE FIRST HALF OF WORKSHEET #2A, THERE IS AN EXTRA CREDIT SECTION ON THE SECOND HALF OF WORKSHEET #2A.

CHECK THAT ALL COMPUTERS, MONITORS AND DISK DRIVES ARE TURNED OFF.

COMPUTE	DAY 2 R LITERACY	NAME		112
STUDENT	- DAY 1	SECTION		
MATCHIN	G:			
1.	ERASES THE CURRENT PROGRAM FROM !	TEMORY.	A .	SHIFT/CLR-HOME
2.	DISPLAYS CHARACTERS IN OUTPUT OF	A PROGRAM.	В.	PROGRAM
3.	THE COMPUTER LANGUAGE USED IN TH	S CLASS.	C.	LIST
4.	EXECUTES THE PROGRAM CURRENTLY IN	MEMORY.	D.	NEW
5.	A T.VLIKE UNIT CONNECTED TO TH	COMPUTER.	E.	CURSOR
6.	CLEARS THE SCREEN AND SENDS THE	CURSOR	F .	RUN
	TO THE UPPER LEFT CORNER OF THE !		G.	RETURN
7.	COMMAND THAT DISPLAYS THE PROGRAMMEMORY ON THE SCREEN.	1 IN	Н.	MONITOR
8.	BLINKING BOX THAT SHOWS WHERE YOU	ARE	I .	BASIC
9.	WORKING ON THE SCREEN. KEY PRESSED TO ENTER THE INFORMATION OF THE COMPUTED AS MEMORY.	CION	J.	PRINT
	INTO THE COMPUTER'S MEMORY.			
10.	A GROUP OF STATEMENTS COMBINED TO FOR THE COMPUTER TO FOLLOW.	GETHER		
TRUE OR	FALSE:			
1.	LINE NUMBERS MUST ALWAYS BE INC	EMENTED BY 1	o's.	
2.	WHEN THE COMPUTER IS TURNED OFF,	YOUR PROGRAM	1 IS I	OST.
3.	THE SHIFT KEY CAUSES THE UPPER (CHARACTER ON	A KEY	TO BE PRINTED.
4.	IF YOU CLEAR THE SCREEN, YOUR PRICE COMPUTER'S MEMORY.	ROGRAM WILL BI	CLEA	ARED FROM
5.	A COMPUTER IS A MACHINE THAT PER WITH GREAT ACCURACY.	REFORMS TASKS	AT A E	HIGH SPEED
WRITING	A PROGRAM:			
	ITE A PROGRAM TO DISPLAY YOUR NAM SE BACK OF PAPER IF NECESSARY.)	ME AND ADDRESS	3.	
B. WH	AT COMMAND WOULD YOU USE TO EXECU	THE THIS PROG	RAM? _	
C. WH	AT COMMAND WILL DISPLAY YOUR PROC	RAM STATEMEN	rs bac	K ON
TH	E SCREEN?			

G5.D02.Q1.SC

GRADE 5 - DAY 2 COMPUTER LITERACY		NAME	···	11
ATT 7 1	- DAY 1 R'S COPY	SECTION		
MATCHI	NG:			
<u>D</u> 1.	ERASES THE CURRENT PROGRAM FROM	MEMORY.	A.	SHIFT/CLR-HOME
_ <u>J_</u> 2.	DISPLAYS CHARACTERS IN OUTPUT OF	A PROGRAM.	В.	PROGRAM
<u> </u>	THE COMPUTER LANGUAGE USED IN TH	IS CLASS.	C.	LIST
<u>F</u> 4.	EXECUTES THE PROGRAM CURRENTLY I	N MEMORY.	D.	NEW
<u>H</u> 5.	A T.VLIKE UNIT CONNECTED TO TH	E COMPUTER.	E.	CURSOR
<u>A</u> 6.	CLEARS THE SCREEN AND SENDS THE	CURSOR	F.	RUN
_	TO THE UPPER LEFT CORNER OF THE		G.	RETURN
<u> </u>	COMMAND THAT DISPLAYS THE PROGRAMMEMORY ON THE SCREEN.	H IN	Н.	MONITOR
<u> </u>	BLINKING BOX THAT SHOWS WHERE YOU	U ARE	I.	BASIC
- 4	WORKING ON THE SCREEN.	***	J.	PRINT
<u>G</u> 9.	KEY PRESSED TO ENTER THE INFORMATINTO THE COMPUTER'S MEMORY.	FION		
<u>B</u> _10	A GROUP OF STATEMENTS COMBINED TO FOR THE COMPUTER TO FOLLOW.	OGETHER		
TRUE OF	R FALSE:			
<u>F</u> 1.	LINE NUMBERS MUST ALWAYS BE INC	REMENTED BY 10	o's.	
<u>T</u> 2.	WHEN THE COMPUTER IS TURNED OFF	, YOUR PROGRAM	1 IS	LOST.
<u>T</u> 3.	THE SHIFT KEY CAUSES THE UPPER	CHARACTER ON A	A KEY	TO BE PRINTED.
<u>F</u> 4.	IF YOU CLEAR THE SCREEN, YOUR PITHE COMPUTER'S MEMORY.	ROGRAM WILL BE	CLE.	ARED FROM
<u>T</u> _5.	A COMPUTER IS A MACHINE THAT PE HIGH SPEED WITH GREAT ACCURACY.	RFORMS TASKS A	A TA	
A. WI (U 10 20 30 40 50	G A PROGRAM: RITE A PROGRAM TO DISPLAY YOUR NAME OF PAPER IF NECESSARY.) D REM NAME AND ADDRESS PROGRAM D PRINT" <shift clr-home=""> D PRINT"<student's address="" and="" d="" first="" last="" print"<street="">" D PRINT"<city, state="" zipcode="">"</city,></student's></shift>		3.	
_) END HAT COMMAND WOULD YOU USE TO EXEC	UTE THIS PROGI	RAM?	RUN
C. WE	HAT COMMAND WILL DISPLAY YOUR PRO	GRAM STATEMENT	'S BA	CK ON
T	HE SCREEN? LIST			

COMPUT	5 - DAY 2 ER LITERACY A - DAY 1	NAME		114
STUDEN	T'S COPY	SECTION		
MATCHI	NG:			
1.	ERASES THE CURRENT PROGRAM FROM	MEMORY.	A .	SHIFT/CLR-HOME
2.	DISPLAYS CHARACTERS IN OUTPUT OF	A PROGRAM.	В.	PROGRAM
3.	THE COMPUTER LANGUAGE USED IN TH	IS CLASS.	C .	LIST
4.	EXECUTES THE PROGRAM CURRENTLY I	N MEMORY.	D.	NEW
5.	A T.VLIKE UNIT CONNECTED TO TH	E COMPUTER.	E.	CURSOR
6.	CLEARS THE SCREEN AND SENDS THE O	CURSOR	F.	RUN
_			G.	RETURN
7.	COMMAND THAT DISPLAYS THE PROGRAMMEMORY ON THE SCREEN.	a in	Н.	MONITOR
8.	BLINKING BOX THAT SHOWS WHERE YOU	J ARE	I.	BASIC
9.	WORKING ON THE SCREEN. KEY PRESSED TO ENTER THE INFORMA! INTO THE COMPUTER'S MEMORY.	TION	J.	PRINT
10	A GROUP OF STATEMENTS COMBINED : FOR THE COMPUTER TO FOLLOW.	TOGETHER		
TRUE OF	R FALSE:			
1.	LINE NUMBERS MUST ALWAYS BE INC	REMENTED BY 1	0'S.	
2.	WHEN THE COMPUTER IS TURNED OFF	, YOUR PROGRAI	H IS	LOST.
3.	THE SHIFT KEY CAUSES THE UPPER	CHARACTER ON .	A KEY	TO BE PRINTED.
4.	IF YOU CLEAR THE SCREEN, YOUR PITHE COMPUTER'S MEMORY.	ROGRAM WILL B	E CLE	ARED FROM
5.	A COMPUTER IS A MACHINE THAT PER HIGH SPEED WITH GREAT ACCURACY.	RFORMS TASKS	AT A	
A. WF (10 20 30 40 50 50	G A PROGRAM: RITE A PROGRAM TO DISPLAY YOUR NAI USE BACK OF PAPER IF NECESSARY.) REM NAME AND ADDRESS PROGRAM PRINT" PRINT" PRINT" PRINT" END		S.	
	HAT COMMAND WOULD YOU USE TO EXECU	JTE THIS PROG	RAM?	·
C. WH	HAT COMMAND WILL DISPLAY YOUR PROC	GRAM STATEMEN	rs bac	CK ON
TF	HE SCREEN?			

GRADE 5 - DAY 2 COMPUTER LITERACY QUIZ 1A - DAY 1 TEACHER'S COPY	NAME		
MATCHING:			
D_1. ERASES THE CURRENT PROGRAM FROM	MEMORY.	Α.	SHIFT/CLR-HOME
J 2. DISPLAYS CHARACTERS IN OUTPUT OF	A PROGRAM.	В.	PROGRAM
1 3. THE COMPUTER LANGUAGE USED IN TH	IS CLASS.	C.	LIST
F 4. EXECUTES THE PROGRAM CURRENTLY I	N MEMORY.	D.	NEW
H 5. A T.VLIKE UNIT CONNECTED TO THE	E COMPUTER.	E.	CURSOR
A 6. CLEARS THE SCREEN AND SENDS THE	CURSOR	F.	RUN
TO THE UPPER LEFT CORNER OF THE		G.	RETURN
C 7. COMMAND THAT DISPLAYS THE PROGRAMMEMORY ON THE SCREEN.	M IN	Н.	MONITOR
E_8. BLINKING BOX THAT SHOWS WHERE YOU	U ARE	I.	BASIC
WORKING ON THE SCREEN.		J.	PRINT
G 9. KEY PRESSED TO ENTER THE INFORMA' INTO THE COMPUTER'S MEMORY.	TION		
B 10. A GROUP OF STATEMENTS COMBINED 'FOR THE COMPUTER TO FOLLOW.	TOGETHER		
TRUE OR FALSE:			
F 1. LINE NUMBERS MUST ALWAYS BE INC	REMENTED BY 10	'S.	
T 2. WHEN THE COMPUTER IS TURNED OFF	, YOUR PROGRAM	ISI	LOST.
T 3. THE SHIFT KEY CAUSES THE UPPER	CHARACTER ON A	KEY	TO BE PRINTED.
F 4. IF YOU CLEAR THE SCREEN, YOUR PITTE COMPUTER'S MEMORY.	ROGRAM WILL BE	CLE	ARED FROM
T 5. A COMPUTER IS A MACHINE THAT PER HIGH SPEED WITH GREAT ACCURACY.	RFORMS TASKS A	A T	
WRITING A PROGRAM: A. WRITE A PROGRAM TO DISPLAY YOUR NAI (USE BACK OF PAPER IF NECESSARY.) 10 REM NAME AND ADDRESS PROGRAM 20 PRINT" <shift clr-home="">" 30 PRINT"<student's 40="" 50="" address"="" and="" first="" last="" print"<city,="" print"<street="" state="" zipcode="">" 60 END B. WHAT COMMAND WOULD YOU USE TO EXECT</student's></shift>	NAME>"		RUN
C. WHAT COMMAND WILL DISPLAY YOUR PROOF			
THE SCREEN? LIST	semma wanammiila		

G5.D02.Q1A.TC

	116
NAME	
SECTION	

PRESS	COLOR	DISPLAY
CTRL 1	BLACK	
CTRL 2	WHITE	3
CTRL 3	RED	.
CTRL 4	CYAN	
CTRL 5	PURPLE	
CTRL 6	GREEN	
CTRL 7	BLUE	
CTRL 8	YELLOW	র
[]	ORANGE	<u> </u>
C z 2	BROWN	
C 3	LT. RED	×
C: 4	GRAY #1	Ō
[c= 5] ·	GRAY #2	
C x 6	LT. GREEN	
4 7	LT. BLUE	
C= 8	GRAY #3	
CTRL 9	REVERSE ON	ि
CTRL Ø	REVERSE OFF	
CIAL D	1	

Creative Learning Association Charleston, IL 61920

GRADE 5 -	DAY	2
COMPUTER I	ITEF	LACY
MODESHEET	2	
STUDENT'S	COPY	7

NAME				111
SECT	TON			

_	EII.	TN	THE	BLANKS	TO	COMPLETE	A	PROGRAM	TO	PRINT	YOUR	FIRST	NAMES
1	4114	T 1.4	1 1112	DUMINO	10	COULTEIL	п	THOUSEN	10	TITITI	TOOK	FIRDI	NAMES.

	REM PROGRAM TO PRINT OUR NA	MES
20	" <shift clr-home=""></shift>	
30	PRINT "	41
40	PRINT "	
50		

- 2. RAISE YOUR HAND TO HAVE YOUR COMPLETED PROGRAM CHECKED.
- 3. TURN ON THE COMPUTER AND THE MONITOR.
- 4. CLEAR THE SCREEN.
- 5. ENTER THE PROGRAM TO PRINT YOUR FIRST NAMES.
- 6. RAISE YOUR HAND TO HAVE YOUR PROGRAM CHECKED.
- 7. EXECUTE YOUR PROGRAM.
- 8. CLEAR THE SCREEN.
- 9. HAVE THE COMPUTER DISPLAY THE PROGRAM ON THE SCREEN.
- 10. ERASE THE PROGRAM FROM THE COMPUTER'S MEMORY.
- 11. ASK THE TEACHER FOR THE NEXT PAGE.

GRADE 5 - COMPUTER I	DAY 2 .ITERACY
WORKSHEET	2
TEACHER'S	COPY

NAME		
SECT1	LON	

110

1	FILL	IN	THE	BLANKS	TO	COMPLETE	Α	PROGRAM	TO	PRINT	YOUR	FIRST	NAMES.
---	------	----	-----	--------	----	----------	---	---------	----	-------	------	-------	--------

- 10 REM PROGRAM TO PRINT OUR NAMES

 20 PRINT "<SHIFT/CLR-HOME>"

 30 PRINT " <YOUR FIRST NAME> "

 40 PRINT " <YOUR PARTNER'S FIRST NAME> "

 50 END
- 2. RAISE YOUR HAND TO HAVE YOUR COMPLETED PROGRAM CHECKED.
- 3. TURN ON THE COMPUTER AND THE MONITOR. (EACH STUDENT TURNS ON AN ITEM.)
- 4. CLEAR THE SCREEN. <SHIFT/CLR-HOME>
- 5 ENTER THE PROGRAM TO PRINT YOUR FIRST NAMES.
- 6. RAISE YOUR HAND TO HAVE YOUR PROGRAM CHECKED. (HAVE THE STUDENTS PROCEED WITH STEPS 7 10 ONLY IN YOUR PRESENCE.)
- 7. EXECUTE YOUR PROGRAM. (RUN)
- 8. CLEAR THE SCREEN. <SHIFT/CLR-HOME>
- 9. HAVE THE COMPUTER DISPLAY THE PROGRAM ON THE SCREEN. (LIST)
- 10. ERASE THE PROGRAM FROM THE COMPUTER'S MEMORY. (NEW)
- 11. ASK THE TEACHER FOR THE NEXT PAGE.

GRADE 5 -	DAY 2
COMPUTER I	JITERACY
WORKSHEET	2A
CTUDENT'S	COPY

NAME	119
MATE.	
SECTION	

- ENTER THE FOLLOWING PROGRAM, USING THE CONTROL 9> TO ENTER "RVS ON" AND CONTROL 3> TO ENTER "RED". THE COLOR BLACK IS ENTERED USING CONTROL 1> YOU SHOULD BE ABLE TO FIGURE OUT HOW TO ENTER THE "RVS OFF" YOURSELF. IF YOU NEED A HINT, ASK YOUR TEACHER!
 - 10 REM RED AND BLACK COLOR BARS
 - 20 PRINT "<SHIFT CLR/HOME>"
 - 30 PRINT "<RVS ON><RED><10 SPACES><CO>"
 - 40 PRINT "<RVS ON><BLACK><10 SPACES><CO>"
 - 50 PRINT " (RVS OFF) THAT'S ALL!"
 - 60 END
- 2. EXECUTE THE PROGRAM, LIST THE PROGRAM ON THE SCREEN AND THEN RAISE YOUR HAND TO HAVE YOUR PROGRAM CHECKED.
- 3. REPLACE LINE #50 WITH:

50 GOTO 20

4. EXECUTE THE PROGRAM, LIST THE PROGRAM ON THE SCREEN AND THEN RAISE YOUR HAND TO HAVE YOUR PROGRAM CHECKED.

EXTRA CREDIT:

- A. ENTER THIS PROGRAM:
 - 10 REM PROGRAM TO UNDERSTAND THE GOTO COMMAND
 - 20 PRINT "<SHIFT/CLR-HOME>"
 - 30 PRINT "THE GOTO COMMAND ALLOWS YOU"
 - 40 PRINT "TO REPEAT A STATEMENT OVER AND OVER"
 - 50 PRINT "PRESS THE STOP BUTTON TO END PROGRAM"
 - 60 GOTO 20
 - 70 END
- B. USE <u>TODAY'S LESSON</u> IN ORDER TO DEVELOP A PROGRAM THAT WILL COLOR THE SCREEN ALL ONE COLOR. (<u>DO NOT</u> USE A POKE STATEMENT AND AS A HINT, THE LENGTH OF ONE LINE IS 39 SPACES.)

GRADE 5 - DAY 2 COMPUTER LITERACY WORKSHEET 2A TEACHER'S COPY

MAME			120
NAME		 	
SECT	LON		

- ENTER THE FOLLOWING PROGRAM, USING THE <CONTROL 9> TO ENTER "RVS ON" AND <CONTROL 3> TO ENTER "RED". THE COLOR BLACK IS ENTERED USING <CONTROL 1>. YOU SHOULD BE ABLE TO FIGURE OUT HOW TO ENTER THE "RVS OFF" YOURSELF. IF YOU NEED A HINT, ASK YOUR TEACHER!
 - 10 REM RED AND BLACK COLOR BARS

(HAVE THE STUDENTS

20 PRINT "<SHIFT CLR/HOME>"

TAKE TURNS ENTERING

30 PRINT "<RVS ON><RED><10 SPACES><CO>"
40 PRINT "<RVS ON><BLACK><10 SPACES><CO>"

LINES.)

50 PRINT "<RVS OFF> THAT'S ALL!"

60 END

- 2. EXECUTE THE PROGRAM, LIST THE PROGRAM ON THE SCREEN AND THEN RAISE YOUR HAND TO HAVE YOUR PROGRAM CHECKED.
- 3 REPLACE LINE #50 WITH:

50 GOTO 20

4. EXECUTE THE PROGRAM, LIST THE PROGRAM ON THE SCREEN AND THEN RAISE YOUR HAND TO HAVE YOUR PROGRAM CHECKED.

EXTRA CREDIT:

- A. ENTER THIS PROGRAM:
 - 10 REM PROGRAM TO UNDERSTAND THE GOTO COMMAND

20 PRINT "<SHIFT/CLR-HOME>"

- 30 PRINT "THE GOTO COMMAND ALLOWS YOU"
- 40 PRINT "TO REPEAT A STATEMENT OVER AND OVER"
- 50 PRINT "PRESS THE STOP BUTTON TO END PROGRAM"

60 GOTO 20

- 70 END
- B. USE <u>TODAY'S LESSON</u> IN ORDER TO DEVELOP A PROGRAM THAT WILL COLOR THE SCREEN ALL ONE COLOR. (<u>DO NOT</u> USE A POKE STATEMENT AND AS A HINT, THE LENGTH OF ONE LINE IS 39 SPACES.)
 - 10 REM COLOR THE SCREEN
 - 20 PRINT "<SHIFT/CLR-HOME>"
 - 30 PRINT "<C9><C1-C8 OR C=1-C=8><39 SP><C0>"
- (OPT.) 35 X = X + 1 (OPT.) 36 IF X = 22 THEN GOTO 50
 - 40 GOTO 30
 - 50 END

G5.D02.W2A.TC

GRADE 5 - DAY 3 COMPUTER LITERACY TEACHER'S LESSON PLAN	
INSTRUCTIONAL AIDS: COPIES OF THE NECESSARY HANDOUTS AND QUIZ 2 - DAY 2	TOOLS, EQUIPMENT AND MATERIALS: CHALK, ERASER AND PENCILS
OBJECTIVE, INTRODUCTION, PRESENTATION, S STUDENT EVALUATION, ADDITIONAL TOPIC	SUMMARY, STUDENT INVOLVEMENT,

ORJECTIVE FOR THE DAY:

THE STUDENTS WILL LEARN HOW TO CONTROL THE OUTPUT OF A PROGRAM BY USING THE "TAR" AND DOWN COMMANDS AND BE PREPARED FOR A QUIZ ON DAY 4.

INTRODUCTION:

REVIEW WITH THE STUDENTS THE MATERIAL COVERED AT THE PREVIOUS CLASS AND GIVE A QUIZ IN THE HOMEROOM.

PRESENTATION:

DISTRIBUTE COPIES OF:

WORKSHEET #3 (G5.D03.W3.SC)

READING FROM THE TEACHER'S COPY OF THE WORKSHEET #3, READ THE INSTRUCTIONS INCLUDED IN STEP 1. EMPHASIZE TO THE STUDENTS THAT THEY SHOULD REVIEW THE MATERIAL COVERED DURING THE CLASS PERIOD SOME TIME <u>BEFORE</u> THE NEXT CLASS MEETING BECAUSE THERE WILL BE A QUIZ ON ANY OF THE MATERIAL, NEXT TIME WE MEET. ASSIST THE STUDENTS ON WORKSHEET #3 BY CHECKING OFF AND RECORDING THE QUESTIONS THAT COULD BE ASKED: COMPLETION OF EACH STEP.

- 1. WHAT IS DIFFERENT ABOUT THE PROGRAM NOW?
 2. HOW DID YOU PRINT A BLANK LINE?
- 3. WHAT COMMAND WAS IT THAT MOVED THE MESSAGE TO THE CENTER OF THE SCREEN?
- 4. WHAT COMMAND WAS IT THAT MOVED THE MESSAGE TO THE MIDDLE OF THE SCREEN?

WHEN THE STUDENTS ARE DONE WITH WORKSHEET #3,

DISTRIBUTE COPIES OF:

WORKSHEET #3A (G5.D03.W3A.SC)

G5.D03.LP.TC

LESSON PLAN CONTINUED PAGE 2

GRADE 5 - DAY 3
COMPUTER LITERACY
TEACHER'S LESSON PLAN
OBJECTIVE, INTRODUCTION, PRESENTATION, SUMMARY, STUDENT INVOLVEMENT,
STUDENT EVALUATION, ADDITIONAL TOPIC

SUMMARY:

REVIEW THE MATERIAL DISCUSSED DURING TODAY'S CLASS MEETING.
REVIEW WHAT THE STUDENTS SHOULD BE WORKING ON FOR THEIR MAJOR GRAPHICS PROGRAM.
(PICTURE DUE DAY 5)

STUDENT INVOLVEMENT:

THE STUDENTS WILL BE WORKING INDEPENDENTLY ON A QUIZ.
THE STUDENTS WILL BE WORKING ON A COMMODORE WITH A PARTNER.
THE STUDENTS WILL WORK TOWARD CORRECTLY COMPLETING A WORKSHEET.

STUDENT EVALUATION:

THE STUDENTS' QUIZZES WILL BE EVALUATED GIVING ONE POINT FOR EACH CORRECT ANSWER.
THE STUDENTS' PROGRESS ON THE WORKSHEETS SHOULD BE EVALUATED AND RECORDED ON

THE STUDENTS' PROGRESS ON THE WORKSHEETS SHOULD BE EVALUATED AND RECORDED ON THE BASIS OF TEN POINTS FOR A CORRECTLY COMPLETED WORKSHEET.

ADDITIONAL TOPIC:

IF THE STUDENTS FINISH WITH WORKSHEET #3, THEY COULD BEGIN WORKING ON WORKSHEET #3A.

CHECK THAT ALL COMPUTERS, MONITORS AND DISK DRIVES ARE TURNED OFF.

DE 5 - DAY 3 PUTER LITERACY		NAME	123
Z 2 - DAY 2 DENT'S COPY		SECTION	•
INSTRUCTIONS: F	LL-IN THE BLANKS	WITH THE CORRECT A	INSWER/RESPONSE.
THE RESERVED WORDOES NOT CHANGE		INFORMATION (REMA	ARKS) IN A PROGRAM WE
THE SYMBOL " "	APPEARS IN A PROG	RAM STATEMENT WHEN	YOU PRESS THE
	&	_ KEYS.	
	PROGRAMMING TO GI PROGRAM TO PRINT M		LE/REMARK WHICH SAYS
WRITE A LINE OF	PROGRAMMING TO CL	EAR THE SCREEN.	
WRITE A LINE OF	PROGRAMMING TO DI	SPLAY YOUR NAME.	
WRITE A LINE OF PROGRAM.	PROGRAMMING THAT	IS ALWAYS USED AS	A LAST STATEMENT IN
THE COMMAND USEI) TO HAVE THE COMP	UTER EXECUTE (STAF	T) YOUR PROGRAM IS:
THE COMMAND USEI) TO DISPLAY THE P	ROGRAM IN MEMORY C	on the screen:
THE TWO KEYS PRE	SSED TO TURN ON T	HE REVERSE COLOR,	(RVS ON):
THE	KEY AND	THE NUMBER	<u></u> .
WRITE A LINE OF LONG.	PROGRAMMING THAT	WILL MAKE A BLACK	COLOR BAR, 12 SPACES

GRADE 5 - DAY 3 COMPUTER LITERACY	NAME	124
QUIZ 2 - DAY 2 TEACHER'S COPY	SECTION	•
	ANKS WITH THE CORRECT ANSWER/RESPON	SE.
1. THE RESERVED WORD USED TO IN DOES NOT CHANGE THE PROGRAM:	CLUDE INFORMATION (REMARKS) IN A PR	OGRAM WHICH
REM		
2. THE SYMBOL " " APPEARS IN A	A PROGRAM STATEMENT WHEN YOU PRESS T	HE
SHIFT & CLR-HO	ME KEYS.	
3. WRITE A LINE OF PROGRAMMING THE FOLLOWING: PROGRAM TO PR	TO GIVE A PROGRAM A TITLE/REMARK WH	ICH SAYS
10 REM PROGRAM TO PRI	NT MY NAME	
4. WRITE A LINE OF PROGRAMMING	TO CLEAR THE SCREEN.	
20 PRINT " <shift c<="" td=""><td>CLR-HOME>"</td><td></td></shift>	CLR-HOME>"	
5. WRITE A LINE OF PROGRAMMING	TO DISPLAY YOUR NAME.	
30 PRINT " <student< td=""><td>P'S NAME>"</td><td></td></student<>	P'S NAME>"	
6. WRITE A LINE OF PROGRAMMING PROGRAM.	THAT IS ALWAYS USED AS A LAST STATE	MENT IN A
40 END		
7. THE COMMAND USED TO HAVE THE	COMPUTER EXECUTE (START) YOUR PROG	RAM IS:
RUN	_	
8. THE COMMAND USED TO DISPLAY	THE PROGRAM IN MEMORY ON THE SCREEN	[:
LIST		
9. THE TWO KEYS PRESSED TO TURN	ON THE REVERSE COLOR, (RVS ON):	
THE CONTROL KEY	AND THE NUMBER 9	
10. WRITE A LINE OF PROGRAMMING LONG.	THAT WILL MAKE A BLACK COLOR BAR, 12	SPACES
OR 35 PRINT " <c9><c1> OR C9><c1> OR C9><c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c1></c9>	<pre><<12 SP><c0>" <black><12 SPACES><rvs off="">"</rvs></black></c0></pre>	

G5.D03.Q2.TC

GRADE 5 -	DAY	3
COMPUTER I	ITER	ACY
WORKSHEET	3	
STUDENT'S	COPY	7

NAME		125
SECT	ION	

- 1. LISTEN TO THE TEACHER'S INSTRUCTIONS AND ENTER THE FOLLOWING PROGRAM:
 - 10 REM LEARNING TO PRINT
 - 20 PRINT "<SHIFT/CLR-HOME>"
 - 30 PRINT "<TEACHER'S NAME>"
 - 40 END
- 2. BETWEEN LINE 30 AND 40, ADD THE LINE: IS MY COMPUTER TEACHER.
 - 35 PRINT "IS MY COMPUTER TEACHER."
- BELOW THIS LINE, ADD: AT <NAME OF YOUR SCHOOL>.
 - 37 PRINT "AT <NAME OF YOUR SCHOOL>"
- ADD A BLANK LINE BETWEEN THE LINES OF THE MESSAGE.
 - 32 PRINT
 - 36 PRINT
- 5. MODIFY LINES 30, 35 AND 37 TO CENTER THE MESSAGE ON THE SCREEN.
 - 30 PRINT TAB(15) "<TEACHER'S NAME>"
 - 35 PRINT TAB(15) "IS MY COMPUTER TEACHER."
 - 37 PRINT TAB(15) "AT <NAME OF YOUR SCHOOL>"
- 6. MODIFY LINE 30 TO MOVE THE MESSAGE TO THE MIDDLE OF THE SCREEN.
 (THE INVERSE "Q" IS ENTERED BY HOLDING THE CONTROL KEY WHILE PRESSING THE DOWN ARROW.)
 - 30 PRINT TAB(15) "QQQQQQQQQQC<TEACHER'S NAME>"

ASK TEACHER FOR THE NEXT PAGE.

37 PRINT TAB(15) "AT <NAME OF YOUR SCHOOL>"

40 END ASK TEACHER FOR THE NEXT PAGE.

G5. DO3. W3. TC

GRADE 5	DAY 3
COMPUTER I	_ITERACY
WORKSHEET	3 A
STUDENT'S	COPY

NAME			127
ርፑርጥ፣	ON.	 	

1	LISTEN TO THE TEA	CHER'S INSTRUCTIONS.	CLEAR MEMORY	AND ENTER A PROGRAM
• •	WHICH WOULD PRINT	YOUR NAME AND YOUR	PARTNER'S NAME (ON TWO SEPARATE LINES

- 2. ADD LINES OF PROGRAMMING TO PUT A COLOR BAR UNDER YOUR NAME AND YOUR PARTNER'S NAME. YOU MAY USE ANY COLOR EXCEPT THE BACKGROUND COLOR.
- 3. COPY AND MODIFY THE PROGRAM TO CENTER THE SAME MESSAGE ON THE SCREEN. (15)
- 4. COPY AND MODIFY THE PROGRAM TO MOVE THE SAME MESSAGE TO THE MIDDLE OF THE SCREEN. (8 AND 15)
- 5. ADD A LINE OF PROGRAMMING TO ADD A COLOR BAR. THE COLOR BAR SHOULD BE 10 SPACES RED, 10 SPACES WHITE AND 10 SPACES BLUE.

TAB(15) "<PARTNER'S NAME>" 70 PRINT

80 PRINT TAB(15) "<C9><C#><XX SP><C0>"

TAB(15) "QQQQQQQQ<STUDENT'S NAME>" *90 PRINT

TAB(15) "<C9><C#><XX SP><C0> *100 PRINT

TAB(15) "<PARTNER'S NAME>" *110 PRINT

TAB(15) "<C9><C#><XX SP><C0>" *120 PRINT

140 END

ADD A LINE OF PROGRAMMING TO ADD A COLOR BAR. THE COLOR BAR SHOULD BE 10 SPACES RED, 10 SPACES WHITE AND 10 SPACES BLUE. *130 PRINT "<C9><C3><10 SP><C2><10 SP><C4><10 SP><C0>"

G5.D03.W3A.TC

INSTRUCTIONAL AIDS:	TOOLS, EQUIPMENT AND MATERIALS:
COPIES OF THE NECESSARY HANDOUTS AND QUIZ 3 - DAY 3	CHALK, ERASER AND PENCILS
BJECTIVE, INTRODUCTION, PRESENTATION,	SUMMARY, STUDENT INVOLVEMENT.

ORJECTIVE FOR THE DAY:

THE STUDENTS WILL PRACTICE IDENTIFYING ERRORS IN A PROGRAM, USE THE "FOR-NEXT" COMMAND AND BE PREPARED FOR A QUIZ ON DAY 5.

INTRODUCTION:

REVIEW WITH THE STUDENTS THE MATERIAL COVERED AT THE PREVIOUS CLASS AND GIVE A QUIZ IN THE HOMEROOM.

PRESENTATION:

DISTRIBUTE COPIES OF:

WORKSHEET #4 (G5.D04.W4.SC)

THIS WORKSHEET IS TO BE COMPLETED AS HOMEWORK. THE WORKSHEET WILL BE DUE AT THE NEXT CLASS MEETING. ONE HINT YOU MIGHT WANT TO GIVE IS THAT THERE ARE TWO LINES THAT DO NOT HAVE ANY ERROR, BUT MIGHT NOT BE IN THE PROPER SEQUENCE.

DISTRIBUTE COPIES OF:

WORKSHEET #4A (G5.D04.W4A.SC)

THIS WORKSHEET HAS THREE PROGRAMS. INSTRUCT STUDENTS NOT TO USE THE RESERVED WORD "NEW" UNTIL YOU INSTRUCT THEM TO DO SO. THE STUDENTS SHOULD ENTER THE PROGRAM, EXECUTE THE PROGRAM AND LIST THE PROGRAM ON THE SCREEN AT EACH STEP. INSTRUCT STUDENTS TO WAIT FOR YOU TO CHECK THEIR PROGRAMS AFTER COMPLETING EACH NUMBERED STEP.

G5.D04.LP.TC

LESSON PLAN CONTINUED PAGE 2

GRADE 5 - DAY 4 COMPUTER LITERACY TEACHER'S LESSON PLAN	_
OBJECTIVE, INTRODUCTION, PRESENTATION, SUMMARY, STUDENT INVOLVEMENT, STUDENT EVALUATION, ADDITIONAL TOPIC	_

SUMMARY:

REVIEW THE MATERIAL DISCUSSED DURING THE COURSE AND REMIND THE STUDENTS TO STUDY ALL MATERIAL IN PREPARATION FOR THE QUIZ AT THE NEXT CLASS MEETING.
REVIEW WHAT THE STUDENTS SHOULD BE WORKING ON FOR THEIR MAJOR GRAPHICS PROGRAM.
(PICTURE DUE DAY 5)

STUDENT INVOLVEMENT:

THE STUDENTS WILL BE WORKING INDEPENDENTLY ON A QUIZ.
THE STUDENTS WILL BE WORKING ON A COMMODORE WITH A PARTNER.
THE STUDENTS WILL WORK TOWARD CORRECTLY COMPLETING A WORKSHEET.

STUDENT EVALUATION:

THE STUDENTS' QUIZZES WILL BE EVALUATED GIVING ONE POINT FOR EACH CORRECT ANSWER.
THE STUDENTS' PROGRESS ON THE WORKSHEETS SHOULD BE EVALUATED AND RECORDED ON THE BASIS OF TEN POINTS FOR A CORRECTLY COMPLETED WORKSHEET.

ADDITIONAL TOPIC:

IF THE STUDENTS FINISH WITH WORKSHEET #4A, THEY CAN PROCEED TO WORK ON CORRECTING WORKSHEET #4. IF THERE IS TIME AVAILABLE, THE STUDENTS CAN ENTER WORKSHEET #4 INTO THE COMPUTER.

CHECK THAT ALL COMPUTERS, MONITORS AND DISK DRIVES ARE TURNED OFF.

COMP	E 5 - DAY 4 UTER LITERACY		NAME	131
QUIZ STUD	3 - DAY 3 ENT'S COPY		SECTION	
	INSTRUCTIONS: I	FILL-IN THE BLANKS	WITH THE CORRECT ANS	WER/RESPONSE.
1.	THE RESERVED WO		E INFORMATION (REMARK	S) IN A PROGRAM WHICH
2.	THE SYMBOL "	APPEARS IN A PRO	GRAM STATEMENT WHEN Y	OU PRESS THE
		&	KEYS.	
3.		PROGRAMMING TO G PROGRAM TO PRINT	IVE A PROGRAM A TITLE MY NAME.	/REMARK WHICH SAYS
4.	WRITE A LINE OF	PROGRAMMING TO C	LEAR THE SCREEN.	
5.	WRITE A LINE OF	PROGRAMMING TO D	ISPLAY YOUR NAME.	
6.	WRITE A LINE OF PROGRAM.	PROGRAMMING THAT	IS ALWAYS USED AS A	LAST STATEMENT IN A
7	THE COMMAND USE	D TO HAVE THE COM	PUTER EXECUTE (START)	YOUR PROGRAM IS:
8.	THE COMMAND USE	D TO DISPLAY THE	PROGRAM IN MEMORY ON	THE SCREEN:
9.	THE TWO KEYS PE	LESSED TO TURN ON	THE REVERSE COLOR, (R	VS ON):
	THE	KEY AND	THE NUMBER	
10.	WRITE A LINE OF LONG.	PROGRAMMING THAT	WILL MAKE A BLACK CO	LOR BAR, 12 SPACES
	·			

COMP	E 5 - DAY 4 UTER LITERACY	NAME	132
QUIZ TEAC	3 - DAY 3 HER'S COPY	SECTION	
	INSTRUCTIONS: FILL-IN THE BLANKS	WITH THE CORRECT ANSWER/RE	ESPONSE.
1.	THE RESERVED WORD USED TO INCLUD DOES NOT CHANGE THE PROGRAM:	E INFORMATION (REMARKS) IN	A PROGRAM WHICH
.	THE SYMBOL " " APPEARS IN A PRO	WOAM CTATEMENT WHEN VOIL DE	rce Tur
2.	THE STREET ATTEMES IN A TRO	dimi binizitzai witta 100 ili	500 THE
	SHIFT & CLR-HOME	KEYS.	
3.	WRITE A LINE OF PROGRAMMING TO G THE FOLLOWING: PROGRAM TO PRINT		K WHICH SAYS
	10 REM PROGRAM TO PRINT M	Y NAME	
4.	WRITE A LINE OF PROGRAMMING TO C	LEAR THE SCREEN.	
	20 PRINT " <shift clr-h<="" td=""><td>OME>"</td><td></td></shift>	OME>"	
5.	WRITE A LINE OF PROGRAMMING TO D	ISPLAY YOUR NAME.	
	30 PRINT " <student's n<="" td=""><td>AMT > "</td><td></td></student's>	AMT > "	
6.	WRITE A LINE OF PROGRAMMING THAT PROGRAM.		STATEMENT IN A
	40 END		·
7.	THE COMMAND USED TO HAVE THE COM	PUTER EXECUTE (START) YOUR	PROGRAM IS:
	RUN	•	
8.	THE COMMAND USED TO DISPLAY THE	PROGRAM IN MEMORY ON THE SO	CREEN:
	LIST		
9.	THE TWO KEYS PRESSED TO TURN ON	THE REVERSE COLOR, (RVS ON)):
		, .	
	THE CONTROL KEY AND	THE NUMBER 9.	
10.	WRITE A LINE OF PROGRAMMING THAT LONG.	WILL MAKE A BLACK COLOR BA	AR,12 SPACES
OR	35 PRINT " <c9><c1><12 35 PRINT "<rvs on=""><bla< td=""><td>SP><co>" CK><12 SPACES><rvs off="">"</rvs></co></td><td></td></bla<></rvs></c1></c9>	SP> <co>" CK><12 SPACES><rvs off="">"</rvs></co>	

G5.D04.Q3.TC

GRADE 5 -	DAY 4
COMPUTER I	LITERACY
WORKSHEET	4
CTUDENT'S	

NAME		133
SECT	ION	

THERE ARE TEN MISTAKES IN THE FOLLOWING PROGRAM, ONE IN EACH LINE.

FIND EACH MISTAKE, CORRECT IT, AND GIVE THE CORRECTED WORKSHEET TO YOUR TEACHER BY THE <u>MEXT</u> CLASS MEETING. IF YOU HAVE TIME, YOU CAN ENTER THE PROGRAM INTO A COMPUTER IN YOUR HOMEROOM TO SEE IF YOU HAVE IT CORRECT.

- 10 REM "COMPUTER PROGRAMMING"
- 20 PRINT (SHIFT/CLR-HOME)
- 30 PRINT (10) "COMPUTER PROGRAMMING"
- 40 PRINT BLANK
- 50 PRINT TAB(16) "EASY AS"
- 60 "PRINT"
- 70 PRINT TAB(18) "IS AS"
- 80 PRIMT
- 90 PRINT "TAB(16) CAN BE!"
- 100 PRINT END

		134

SECTION ____

THERE ARE TEN MISTAKES IN THE FOLLOWING PROGRAM, ONE IN EACH LINE.

FIND EACH MISTAKE, CORRECT IT, AND GIVE THE CORRECTED WORKSHEET TO YOUR TEACHER BY THE NEXT CLASS MEETING. IF YOU HAVE TIME, YOU CAN ENTER THE PROGRAM INTO A COMPUTER IN YOUR HOMEROOM TO SEE IF YOU HAVE IT CORRECT.

10	REM "COMPUTER PROGRAMMING"	10 REM COMPUTER PROGRAMMING	
20	PRINT <shift clr-home=""></shift>	20 PRINT " <shift clr-home="">"</shift>	
30	PRINT (10)"COMPUTER PROG."	30 PRINT TAB(10)"COMPUTER PROGR	AMMING"
40	PRINT BLANK	40 PRINT	
50	PRINT TAB(16) "EASY AS"	70 PRINT TAB(16) "EASY AS"	
60	"PRINT"	60 PRINT	
70	PRINT TAB(18) "IS AS"	50 PRINT TAB(18) "IS AS"	
80	PRIMT	80 PRINT	
90	PRINT "TAB(16) CAN BE!"	90 PRINT TAB(16) "CAN BE!"	
100	PRINT END	100 END	

GRADE 5 - DAY 4
COMPUTER LITERACY
WORKSHEET 4A
STUDENT'S COPY

NAME	135
NAME	
SECTION	

- ENTER THE FOLLOWING PROGRAM: 1.
 - 5 REM NAME PROGRAM
 - 10 PRINT "<SHIFT/CLR-HOME>"

 - 40 PRINT "<YOUR FIRST AND LAST NAME>"
 50 PRINT "<YOUR PARTNER'S FIRST AND LAST NAME>"
 - 80 GOTO 10
 - 90 END
- ADD LINES #20 AND #30: 2.
 - 20 FOR T = 1 TO 500
 - 30 NEXT T
- ADD LINES #60 AND #70:
 - 60 FOR T = 1 TO 500
 - 70 NEXT T
- ENTER THE FOLLOWING PROGRAM: 1
 - 10 REM COLOR BAR PROGRAM
 - 20 PRINT "<SHIFT/CLR-HOME>"
 - 30 FOR X = 1 TO 10
 - 40 PRINT "<RVS ON><YELLOW><10 SPACES>"
 - 50 NEXT X
 - 60 END
- ENTER THE FOLLOWING PROGRAM:
 - 10 REM COUNT TO TEN PROGRAM
 - 15 PRINT "<SHIFT/CLR-HOME>"
 20 FOR X = 1 TO 10

 - 30 PRINT X
 - 40 NEXT X
 - 50 END
- 2. WRITE AN ADDITIONAL LINE TO THIS PROGRAM SO THAT A BLANK LINE PRINTS OUT BETWEEN EACH LINE.
- 3. MODIFY A LINE OF THE PROGRAM TO MOVE THE PRINTED NUMBERS TO THE CENTER OF THE SCREEN.

G5. D04. W4A. SC

136

ENTER THE FOLLOWING PROGRAM:

5 REM NAME PROGRAM

10 PRINT "<SHIFT/CLR-HOME>"

40 PRINT "<YOUR FIRST AND LAST NAME>"

50 PRINT "<YOUR PARTNER'S FIRST AND LAST NAME>"

80 GOTO 10

90 END

ADD LINES #20 AND #30: 2

20 FOR T = 1 TO 500

MAKES THE PROGRAM PAUSE

30 NEXT T

AFTER CLEARING THE SCREEN

ADD LINES #60 AND #70: 3

60 FOR T = 1 TO 500

MAKES THE PROGRAM PAUSE

70 NEXT T

AFTER PRINTING NAMES

ENTER THE FOLLOWING PROGRAM:

10 REM COLOR BAR PROGRAM

20 PRINT "<SHIFT/CLR-HOME>"

30 FOR X = 1 TO 10

40 PRINT "<RVS ON><YELLOW><10 SPACES>"

50 NEXT X

60 END

ENTER THE FOLLOWING PROGRAM: 1

- 10 REM COUNT TO TEN PROGRAM
- 15 PRINT "<SHIFT/CLR-HOME>" 20 FOR X = 1 TO 10
- 30 PRINT X
- 40 NEXT X
- 50 END

WRITE AN ADDITIONAL LINE TO THIS PROGRAM SO THAT A BLANK LINE PRINTS OUT 2. BETWEEN EACH LINE.

35 PRINT

3. MODIFY A LINE OF THE PROGRAM TO MOVE THE PRINTED NUMBERS TO THE CENTER OF THE SCREEN.

30 PRINT TAB(20) X

G5. DO4. W4A. TC

LESSON PLAN

GRADE 5 - DAY 5
COMPUTER LITERACY
TEACHER'S LESSON PLAN

INSTRUCTIONAL AIDS:

COPIES OF THE NECESSARY HANDOUTS AND QUIZ 4 - DAY 4

OBJECTIVE, INTRODUCTION, PRESENTATION, SUMMARY, STUDENT INVOLVEMENT, STUDENT EVALUATION, ADDITIONAL TOPIC

OBJECTIVE FOR THE DAY:

THE STUDENTS WILL LEARN HOW THE "GOTO", "IF-THEN", AND COUNTER COMMANDS CONTROL THE OUTPUT OF A PROGRAM BY USING THE COMMANDS IN SOME PROGRAMS AND BE PREPARED FOR A QUIZ ON DAY 6.

INTRODUCTION:

COLLECT WORKSHEET #4 FROM THE STUDENTS, THEN REVIEW WITH THE STUDENTS THE MATERIAL COVERED AT THE PREVIOUS CLASS AND GIVE A QUIZ IN THE HOMEROOM.

PRESENTATION:

DISTRIBUTE COPIES OF:

WORKSHEET #5 (G5.D05.W5.SC)

READ THE DEFINITIONS IN ITEMS # 1-4 AND HAVE THE STUDENTS SUGGEST WHAT THE TERMS MIGHT BE. AFTER SPENDING A LIMITED AMOUNT OF TIME, MAKE SURE THE STUDENTS ALL HAVE THE SAME AND CORRECT TERMS FOR THE DEFINITIONS.

CONTINUE WITH WORKSHEET #5, AND HAVE THE STUDENTS ENTER PROGRAMS, TAKING TURNS EITHER LINE BY LINE OR PROGRAM BY PROGRAM. THIS WORKSHEET HAS THREE SEPARATE PROGRAMS. THE STUDENTS SHOULD ENTER A PROGRAM, EXECUTE THE PROGRAM, LIST THE PROGRAM AND WAIT FOR THE TEACHER TO CHECK THEIR WORK AFTER COMPLETING EACH PROGRAM BEFORE GOING TO THE NEXT PROGRAM. REMIND THE STUDENTS TO ENTER "NEW" BEFORE STARTING THE NEXT PROGRAM. WHILE THE STUDENTS ARE WORKING ON WORKSHEET #5, CHECK EACH STUDENT'S MAJOR GRAPHICS PICTURE.

DISTRIBUTE COPIES OF:

STUDENT HANDOUT #3 (G5.D05.SH3.SC) (2 PAGES)

THIS IS A TWO PAGE WORKSHEET THE STUDENTS CAN WRITE THEIR MAJOR GRAPHICS PROGRAM ON.

G5. D05. LP. TC

LESSON PLAN CONTINUED PAGE 2

GRADE 5 - DAY 5 COMPUTER LITERACY TEACHER'S LESSON PLAN	
OBJECTIVE, INTRODUCTION, PRESENTATION, SUMMARY, STUDENT INVOLVEMENT, STUDENT EVALUATION, ADDITIONAL TOPIC	- 1

SUMMARY:

REVIEW THE MATERIAL DISCUSSED DURING THE COURSE AND REMIND THE STUDENTS TO STUDY ALL MATERIAL IN PREPARATION FOR THE QUIZ AT THE NEXT CLASS MEETING. REVIEW WHAT THE STUDENTS SHOULD BE WORKING ON FOR THEIR MAJOR GRAPHICS PROGRAM.

STUDENT INVOLVEMENT:

THE STUDENTS WILL BE WORKING INDEPENDENTLY ON A QUIZ.
THE STUDENTS WILL BE WORKING ON A COMMODORE WITH A PARTNER.
THE STUDENTS WILL WORK TOWARD CORRECTLY COMPLETING A WORKSHEET.

STUDENT EVALUATION:

THE STUDENTS' QUIZZES WILL BE EVALUATED GIVING ONE POINT FOR EACH CORRECT ANSWER.

THE STUDENTS' PROGRESS ON THE WORKSHEETS SHOULD BE EVALUATED AND RECORDED ON THE BASIS OF TEN POINTS FOR A CORRECTLY COMPLETED WORKSHEET.

ADDITIONAL TOPIC:

IF THE STUDENTS FINISH WITH WORKSHEET ± 5 , THE STUDENTS CAN BE GIVEN WORKSHEET $\pm 5A$.

DISTRIBUTE COPIES OF:

WORKSHEET #5A (G5.D05.W5A.SC)

THIS WORKSHEET IS ONE COMPLETE PROGRAM. THE INSTRUCTIONS ARE ON THE TEACHER'S COPY.

CHECK THAT ALL COMPUTERS, MONITORS AND DISK DRIVES ARE TURNED OFF.

G5. DO5. LP. TC

COMP	E 5 - DAY 5 UTER LITERACY 4 - DAY 4 ENT'S COPY	NAME	139
1.	WRITE A PROGRAM TO PRINT YOUR NAME THE SCREEN.	AND ADDRESS 10 SPACES TO THE	RIGHT ON
	10		
	20		
	30		
	40		
	50		
	60		
2.	ADD A LINE TO PRINT YOUR PHONE NUMBER	BER UNDER YOUR ADDRESS.	
	55		
3.	ADD LINES TO PRINT A BLANK LINE BET	TWEEN THE LINES OF THE MESSAG	E .
	35		

MODIFY LINE 30 TO MOVE THE MESSAGE DOWN 5 LINES.

30_____

GRADE 5 - DAY	5
COMPUTER LITER	ACY
OHI 7 4 - DAY 4	
TEACHER'S COPY	

NAME	140
NAPIE.	
SECTION	

TEACHER'S COPI	SECTION
1. WRITE A PROGRAM TO THE SCREEN.	PRINT YOUR NAME AND ADDRESS 10 SPACES TO THE RIGHT ON
10 REM	NAME AND ADDRESS PROGRAM
20 PRINT	" <shift clr-home="">"</shift>
30 PRINT	TAB(10) " <first and="" last="" name="">"</first>
40 PRINT	TAB(10) " <street address="">"</street>
50 PRINT	TAB(10) " <city, state="" zipcode="">"</city,>
60 END	
2. ADD A LINE TO PRIN	T YOUR PHONE NUMBER <u>UNDER</u> YOUR ADDRESS.
55 PRINT	TAB(10) " <phone number="">"</phone>
3. ADD LINES TO PRINT	A BLANK LINE BETWEEN THE LINES OF THE MESSAGE.
35 PRINT	
45 PRINT	
52 PRINT	
4. MODIFY LINE 30 TO	MOVE THE MESSAGE <u>DOWN</u> 5 LINES.
30 PRINT TAB	(10) "QQQQQ <first and="" last="" name="">"</first>

COMPUTER LITERACY	GRADE			
	COMPUT	ER L	ITER	ACY
STUDENT HANDOUT #3				
GRAPHICS PROGRAM				

NAME	141
NAME	
SECTION	•

GRAPI	HICS P	ROGRAM			SI	ECTION .			
PRINT	VERY	CLEARLY	USING C	OMPLETE	AND PROP	PER PRO	ERAMMING	CODE	
10	REM _				<program< td=""><td>NAME></td><td></td><td></td><td></td></program<>	NAME>			
15	REM _			····		<your< td=""><td>name and</td><td>SECTION</td><td>•</td></your<>	name and	SECTION	•
20	PRINT	" <shift,< td=""><td>/CLR-HOM</td><td>E>"</td><td></td><td></td><td></td><td></td><td></td></shift,<>	/CLR-HOM	E>"					
25	POKE	53280,1	: POKE	53281,	1				
30									· · · · · · · · · · · · · · · · · · ·
40									
									
50									
60									
70									
80									
90						·····	<u></u>		1.1
30									
100									
110									

G5.D05.SH3.GP

GRADE 5 - DAY 5 COMPUTER LITERACY		NAME	142
STUDENT HANDOUT #3 GRAPHICS PROGRAM -	PAGE 2	SECTION	-
120			
100	- The state of the		
140			
160			
170			
180			
190		45 0. 6	
200			
210			
			· · · · · · · · · · · · · · · · · · ·
220			
230			
 240 END			

GRADE 5 - DAY 5 COMPUTER_LITERACY	NAME	143
WORKSHEET 5 STUDENT'S COPY	SECTION	•
WRITE THE TERMS FOR THE FOLLOWING DEFINI	TIONS:	
1 PART OF THE PROGRAM TELLI AND OVER.	NG THE COMPUTER TO DO SOMETHE	ING OVER
2 COMMAND TELLING THE COMPUTE PROGRAM.	TER TO GO DIRECTLY TO A CERTA	AIN LINE OF
3 PART OF THE PROGRAM WHICE IS DONE.	COUNTS THE NUMBER OF TIMES S	SOMETHING
4 COMMAND TO EVALUATE PROGR	AM AND TAKE GIVEN ACTION.	
DEMONSTRATION PROGRAMS:		
1. ENTER THE FOLLOWING PROGRAM USING THE	GOTO COMMAND:	
10 REM USING GOTO 20 PRINT " <shift clr-home="">" 30 PRINT "THIS LINE WILL RUN FORE 40 GOTO 30 50 END</shift>	VER"	
2. ENTER THE FOLLOWING PROGRAM USING A C	OUNTER:	
10 REM USING A COUNTER 20 PRINT " <shift clr-home="">"</shift>		
$25 \mathbf{C} = \mathbf{C} + 1$		
30 PRINT C 40 GOTO 25		
50 END		
3. ENTER THE FOLLOWING PROGRAM USING AN	IF - THEN COMMAND WITH A COUN	ITER:
10 REM USING IF-THEN WITH A COUNT 20 PRINT " <shift clr-home="">"</shift>	ER	
30 PRINT "IF-THEN TELLS YOU HOW M	ANY TIMES TO REPEAT"	
35 C = C + 1 40 IF C < 5 THEN GOTO 30		
50 END		

GRADE 5 - DAY 5 COMPUTER LITERACY	NAME	144
WORKSHEET 5 TEACHER'S COPY	SECTION	٠
WRITE THE TERMS FOR THE FOLLOWING DEFINI	TIONS:	
1. LOOP - PART OF THE PROGRAM TELLI AND OVER.	ING THE COMPUTER TO DO SOMETHING	GOVER
2. GOTO - COMMAND TELLING THE COMPUTE PROGRAM.	ITER TO GO DIRECTLY TO A CERTAIN	N LINE OF
3. <u>COUNTER</u> - PART OF THE PROGRAM WHICE IS DONE.	COUNTS THE NUMBER OF TIMES SO	METHING
4. IF - THEN - COMMAND TO EVALUATE PROGR	AM AND TAKE GIVEN ACTION.	
DEMONSTRATION PROGRAMS:		
1. ENTER THE FOLLOWING PROGRAM USING THE	GOTO COMMAND:	
10 REM USING GOTO		
20 PRINT " <shift clr-home="">" 30 PRINT "THIS LINE WILL RUN FORE</shift>	" משעי	
40 GOTO 30	1 121	
50 END		
2. ENTER THE FOLLOWING PROGRAM USING A C	COUNTER:	
10 REM USING A COUNTER		
20		
30 PRINT C		
40 GOTO 25		
50 END		
3. ENTER THE FOLLOWING PROGRAM USING AN	IF - THEN COMMAND WITH A COUNTY	ER:
10 REM USING IF-THEN WITH A COUNT	ER	
20 PRINT " <shift clr-home="">" 30 PRINT "IF-THEN TELLS YOU HOW M</shift>	ANY TIMES TO REPEAT"	
35 C = C + 1	THE PARTY AND DESCRIPTION OF THE PARTY OF TH	
40 IF C < 5 THEN GOTO 30		
50 END		

GRADE 5 -	DAY	5
COMPUTER I	LITER	RACY
WORKSHEET		
COUDENT'S		7

NAME	145
SECTION	

. . .

LISTEN TO THE TEACHER'S INSTRUCTIONS.

- 1 PRINTING A COLOR BAR:
 - 10 REM BLACK COLOR BAR
 - 20 PRINT "<SHIFT/CLR-HOME>"
 - 25 POKE 53280,1: POKE 53281,1
 - 30 PRINT "<C9><C1><39 SP><C0>"
 - 50 END
- 2. PRINTING COLOR BARS USING THE GOTO COMMAND:

(ADD LINE 40)

- 10 REM BLACK COLOR BAR
- 20 PRINT "<SHIFT/CLR-HOME>"
- 25 POKE 53280,1: POKE 53281,1
- 30 PRINT "<C9><C1><39 SP><C0>"
- *40 GOTO 30
- 50 END
- 3. PRINTING COLOR BARS USING THE IF THEN COMMAND:

(ADD LINE 35 AND MODIFY LINE 40)

- 10 REM BLACK COLOR BAR
- 20 PRINT "<SHIFT/CLR-HOME>"
- 25 POKE 53280,1:POKE 53281,1
- 30 PRINT "<C9><C1><39 SP><C0>"
- *35 C = C + 1
- *40 IF C < 5 THEN GOTO 30
 - 50 END
- 4. COLOR THE FULL SCREEN:

(MODIFY LINE 40)

- 10 REM BLACK COLOR BAR
- 20 PRINT "<SHIFT/CLR-HOME>"
- 25 POKE 53280,1:POKE 53281,1
- 30 PRINT "<C9><C1><39 SP><C0>"
- $35 \quad C = C + 1$
- *40 IF C < 21 THEN GOTO 30
- 50 END

GRADE 5 - DAY 5 COMPUTER LITERACY WORKSHEET 5A TEACHER'S COPY

NAME	140
	•
SECTION	

140

THIS WORKSHEET IS ONE COMPLETE PROGRAM DO NOT USE THE RESERVED WORD "NEW" UNTIL THE TEACHER INSTRUCTS YOU. AFTER COMPLETING EACH STEP, EXECUTE THE PROGRAM AND LIST THE PROGRAM. WAIT FOR THE TEACHER BEFORE GOING ON TO THE NEXT STEP.

- 1. PRINTING A COLOR BAR:
 - REM BLACK COLOR BAR 10
 - PRINT "<SHIFT/CLR-HOME>" 20
 - POKE 53280,1:POKE 53281,1 25
 - PRINT "<C9><C1><39 SP><C0>" 30
 - END 50
- 2. PRINTING COLOR BARS USING THE GOTO COMMAND:

(ADD LINE 40)

- REM BLACK COLOR BAR 10
- PRINT "<SHIFT/CLR-HOME>" 20
- 25 POKE 53280,1:POKE 53281,1
- PRINT "<C9><C1><39 SP><C0>" 30
- GOTO 30 *40
- 50 END
- 3 PRINTING COLOR BARS USING THE IF THEN COMMAND:

(ADD LINE 35 AND MODIFY LINE 40)

- 10 REM BLACK COLOR BAR
- PRINT "<SHIFT/CLR-HOME>" 20
- POKE 53280,1:POKE 53281,1 25
- PRINT "<C9><C1><39 SP><C0>" 30
- *****35
- C = C + 1IF C < 5 THEN GOTO 30 *40
- 50 END
- 4. COLOR THE FULL SCREEN:

(MODIFY LINE 40)

- REM BLACK COLOR BAR 10
- PRINT "<SHIFT/CLR-HOME>" 20
- 25 POKE 53280,1:POKE 53281,1
- 30 PRINT "<C9><C1><39 SP><C0>"
- C = C + 135
- IF C < 21 THEN GOTO 30 *40
- 50 END

LESSON PLAN

NSTRUCTIONAL AIDS:	TOOLS, EQUIPMENT AND MATERIALS:
COPIES OF THE NECESSARY HANDOUTS AND QUIZ 5 - DAY 5	CHALK, ERASER AND PENCILS 12 DISKS (6 FOR THE TEACHER & 6 FOR THE STUDENTS)

OBJECTIVE FOR THE DAY:

THE STUDENTS WILL USE THE "LOAD", "SAVE" AND "POKE" COMMANDS. THE STUDENTS WILL WORK ON A SAMPLE GRAPHICS PROGRAM, START WRITING THEIR OWN GRAPHICS PROGRAMS AND TAKE HOME A QUIZ DUE ON DAY 7.

INTRODUCTION:

REVIEW WITH THE STUDENTS THE MATERIAL COVERED AT THE PREVIOUS CLASSES AND GIVE A QUIZ IN THE HOMEROOM.

DISTRIBUTE COPIES OF:

QUIZ #6 (G5.D07.Q6.SC) (DUE DAY 7)
STUDENT HANDOUT #4 (G5.D07.SH4.CC)
STUDENT HANDOUT #5 (G5.D07.SH5.DD)

PRESENTATION:

THE STUDENTS WILL FIND A DISK AT THEIR ASSIGNED STATIONS. THE TEACHER SHOULD GUIDE THE STUDENTS THROUGH THE USE OF A DISK DRIVE. HAVE THE STUDENTS PROPERLY PLACE THE DISK INTO THE DISK DRIVE AND USE THE LOAD COMMAND TO TRANSFER A COPY OF A PROGRAM FROM DISK TO THE COMPUTER'S MEMORY. HAVE THE STUDENTS EXECUTE THE PROGRAM. WHEN THE PROGRAM IS DONE, CLEAR MEMORY.

DISTRIBUTE COPIES OF:

*WORKSHEET #6 (G5.D06.W6.SC)
WORKSHEET #6 (G5.D06.W6.SC2)

*FOR THE 1987-1988 SCHOOL YEAR, GIVE THE STUDENTS A COPY OF THE PROGRAM. ALL FUTURE SCHOOL YEARS, GIVE THE STUDENTS ONLY A COPY OF THE GRAPHICS.

THE STUDENTS SHOULD BE ABLE TO ENTER THE PROGRAM FROM THE GRAPHICS. IT MIGHT BE HELPFUL TO GIVE THE STUDENTS THE GRAPHICS WORKSHEET A DAY EARLIER, SO THEY COULD WRITE OUT THE PROGRAM AS HOMEWORK. THE GRAPHICS PICTURE FOR A SPECIFIC WORKSHEET ALWAYS HAS THE CODE "SC2" FOR THE STUDENT'S COPY AND "TC2" FOR THE TEACHER'S COPY. WHEN THE STUDENTS CORRECTLY COMPLETE THE WORKSHEET OR RUN OUT OF TIME, SHOW THE STUDENTS HOW TO SAVE THE PROGRAM.

G5.D06.LP.TC

LESSON PLAN CONTINUED PAGE 2

GRADE 5 - DAY 6
COMPUTER LITERACY
TEACHER'S LESSON PLAN

OBJECTIVE, INTRODUCTION, PRESENTATION, SUMMARY, STUDENT INVOLVEMENT,
STUDENT EVALUATION, ADDITIONAL TOPIC

SUMMARY:

REVIEW THE MATERIAL DISCUSSED DURING THE COURSE AND REMIND THE STUDENTS TO STUDY ALL MATERIAL IN PREPARATION FOR A FINAL TEST ON DAY TEN.
REMIND THE STUDENTS THAT THEIR MAJOR GRAPHICS PICTURE SHOULD BE DONE AND THE STUDENTS SHOULD BE WORKING ON THEIR MAJOR GRAPHICS PROGRAM BECAUSE THE TWO ITEMS ARE DUE ON DAY 10.

STUDENT INVOLVEMENT:

THE STUDENTS WILL BE WORKING INDEPENDENTLY ON A QUIZ.
THE STUDENTS WILL BE WORKING ON A COMMODORE WITH A PARTNER.
THE STUDENTS WILL WORK TOWARD CORRECTLY COMPLETING A WORKSHEET.

STUDENT EVALUATION:

THE STUDENTS' QUIZZES WILL BE EVALUATED GIVING ONE POINT FOR EACH CORRECT ANSWER.
THE STUDENTS' PROGRESS ON THE WORKSHEETS SHOULD BE EVALUATED AND RECORDED ON THE BASIS OF TEN POINTS FOR A CORRECTLY COMPLETED WORKSHEET.

ADDITIONAL TOPIC:

IF THE STUDENTS FINISH WITH WORKSHEET #6, THE STUDENTS SHOULD BEGIN WRITING OUT THE PROGRAM FOR THEIR MAJOR GRAPHICS PICTURE AND FINISH THE PROGRAM AS HOMEWORK. THE STUDENTS SHOULD NOT ATTEMPT TO ENTER THIS PROGRAM UNTIL THEY HAVE THE FIRST PAGE OF STUDENT HANDOUT #3 DONE AND THE TEACHER HAS CHECKED IT.

CHECK THAT ALL COMPUTERS, MONITORS AND DISK DRIVES ARE TURNED OFF.

COMPI	E 5 - DAY 6 UTER LITERACY 5 - DAY 5 ENT'S COPY		E					149	
1.	WRITE A PROGRAM TO PRINT YOUR NAME THE SCREEN.	AND	ADDRESS	10	SPACES	то	THE	RIGHT	ON
	10								
	20								
	30						_		
	40			1			<u></u>		
	50	<u>-</u>							
	<u>60</u>		·						
2.	ADD A LINE TO PRINT YOUR PHONE NUMBER	BER <u>U</u>	INDER YOU	JR A	DDRESS	-			
	55								
3.	ADD LINES TO PRINT A BLANK LINE BET	IWEEN	THE LI	NES	OF THE	ME	SSAGI	Σ.	
	35	<u> </u>	·						
	45								

MODIFY LINE 30 TO MOVE THE MESSAGE DOWN 5 LINES.

30

GRADE 5	j -	DAY	7 6
COMPUTE	RI	, l TE	RACY
0117.5	- I)AY	5
TEACHER	≀'S	COF	Y

NAME	150
SECTION	

10	REM	NAME AND ADDRESS PROGRAM
00	DT INM	" (GILLEM (GLD HOME) "
20	PRINI	" <shift clr-home="">"</shift>
30_	PRINT	TAB(10) " <first and="" last="" name="">"</first>
40	PRINT	TAB(10) " <street address="">"</street>
50	PRINT	TAB(10) " <city, state="" zipcode="">"</city,>
60	END	
ADD A L	INE TO PRI	NT YOUR PHONE NUMBER UNDER YOUR ADDRESS.
		TAB(10) " <phone address.<="" number="" td="" under="" your=""></phone>
55	PRINT	
55 ADD LIN	PRINT	TAB(10) " <phone number="">"</phone>
55 ADD LIN	PRINT ES TO PRIN	TAB(10) " <phone number="">"</phone>

COMPI	TTER	DAY 6 151 LITERACY NAME
QUIZ	6 - PNT'S	DAY 6 COPY SECTION E QUIZ, DUE DAY 7)
	INS	TRUCTIONS: FILL-IN THE BLANKS WITH THE CORRECT ANSWER/RESPONSE.
1		- PART OF THE PROGRAM TELLING THE COMPUTER TO DO SOMETHING OVER AND OVER.
2		- COMMAND TELLING THE COMPUTER TO GO DIRECTLY TO A CERTAIN LINE OF THE PROGRAM.
3	<u></u>	- PART OF THE PROGRAM WHICH COUNTS THE NUMBER OF TIMES SOMETHING IS DONE.
		COMMAND TO EVALUATE PROGRAM AND TAKE GIVEN ACTION.
	10 20	REM USING GOTO PRINT " <shift clr-home="">" PRINT "THIS LINE WILL RUN FOREVER"</shift>
	4 0 50	END 30
	10	REM USING A COUNTER PRINT " <shift clr-home="">"</shift>
6.	25 30	= + PRINT C
7 .	4 0 50	END 25
	10 20 30	REM USING IF-THEN WITH A COUNTER PRINT " <shift clr-home="">" PRINT "IF-THEN TELLS YOU HOW MANY TIMES TO REPEAT"</shift>
8.	35	<u>=</u> +
9.	40	C < 5 30

10.

50 END

COMP	OTEK 76 -	DAY 6 LITERACY DAY 6 COPY E QUIZ, DUE DA	Y 7)				52
(TAP		STRUCTIONS: FIL		NKS WITH THE	CORRECT ANS	SWER/RESPONSE	
1	LOC	PART OF AND OV	THE PROGRAM ER.	TELLING THE	COMPUTER TO	DO SOMETHING	OVER
2	GOT	CO - COMMAND THE PRO	TELLING THE OGRAM.	COMPUTER TO	GO DIRECTLY	TO A CERTAIN	LINE OF
3	COUNT	PER - PART OF IS DON	THE PROGRAM	WHICH COUNTS	THE NUMBER	OF TIMES SOME	ETHING
4I	F - 1	<u>'HEN</u> - COMMAND	TO EVALUATE	PROGRAM AND	TAKE GIVEN	ACTION.	
	20	REM USING GO PRINT " <shift, PRINT "THIS L</shift, 	/CLR-HOME>"	FOREVER"			
5.	4 0 50	GOTO :	30				
		REM USING A COPRINT " <shift< td=""><td></td><td></td><td></td><td></td><td></td></shift<>					
6.	25 30	C = C + 1 PRINT C	-				
7.	40 50	GOTO :					
	10 20 30	REM USING IF- PRINT " <shift, PRINT "IF-THE</shift, 	THEN WITH A (COUNTER	es to repeat	r."	
8.	35	C = C + 1	_				
9.	40	<u>IF</u> C < 5	THEN	GOTO	_ 30		
	50	END		10.;			

	153
NAME	

SECTION ____

COLOR:
BLACK
WHITE
RED
CYAN (DARK BLUE)
PURPLE
GREEN
BLUE
YELLOW
ORANGE
BROWN
LT. RED
GRAY # 1
GRAY # 2
LT. GREEN
LT. BLUE

GRAY # 3

15

GRADE 5 -	DAY 6	
COMPUTER I	JITERACY	1
WORKSHEET	6	
STUDENT'S	COPY	

	154
NAME	

SECTION

ENTER THE FOLLOWING PROGRAM:

10	REM	< PROGRAM	NAME>

15 REM <YOUR NAME AND SECTION>

20 PRINT "<SHIFT/CLR-HOME>"

25 POKE 53280,8 : POKE 53281,8

30 FOR X = 1 TO 4

40 PRINT

50 NEXT X

ENTER "RUN" AFTER COMPLETING EACH OF THE FOLLOWING LINES OF PROGRAMMING:

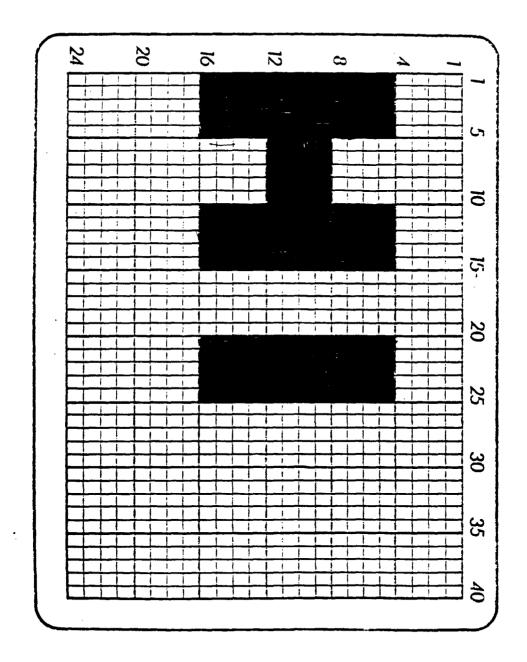
- 60 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>
 <
- 70 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>
 <5 SPACES><C9><C1><5 SPACES><C0>"
- 80 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C1><5 SPACES><C0>
 <5 SPACES><C0>"
- 90 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>
 <5 SPACES><C9><C1><5 SPACES><C0>
 "
- 100 PRINT "<C9><C1><15 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>"
- 110 PRINT "<C9><C1><15 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>"
- 120 PRINT "<C9><C1><15 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>"
- 130 PRINT "<C9><C1><15 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>"
- 140 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C1><5 SPACES><C0>"
- 150 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>
 "

 **C0

 **C
- 160 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C1><5 SPACES><C0>"
- 170 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C1><5 SPACES><C0>
 <
- 180 END

GRADE 5 - DAY 6
COMPUTER LITERACY
WORKSHEET 6
STUDENT'S COPY #2

NAME	
SECTION	



GRADE 5 -	DAY	6
COMPUTER I	TEL	RACY
WORKSHEET	6	
TEACHER'S	COPY	(

NAME	
SECTION	

4 - 0

ENTER THE FOLLOWING PROGRAM:

10	REM	<h> <h> <h> <h> <h> <h> <h> <h></h></h></h></h></h></h></h></h>	
16	REM	< YOUR NAME AND SECTION)N>

15 REM <u>YOUR NAME AND</u>
20 PRINT "SHIFT/CLR-HOME>"

20 PRINT "<SHIFT/CLR-HOME>" 25 POKE 53280,8 : POKE 53281,8

30 FOR X = 1 TO 4

40 PRINT

50 NEXT X

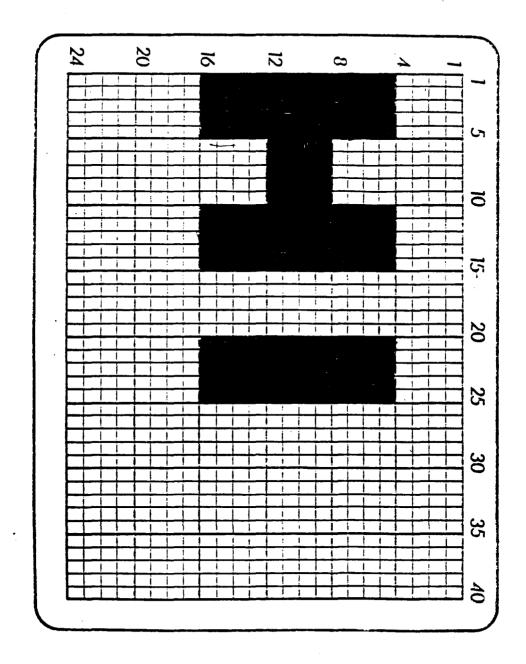
ENTER "RUN" AFTER COMPLETING EACH OF THE FOLLOWING LINES OF PROGRAMMING:

- 60 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C1><5 SPACES><C0>
 <5 SPACES><C0>"
- 70 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>
 <5 SPACES><C9><C1><5 SPACES><C0>
 "
- 80 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C1><5 SPACES><C0>"
- 90 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>
 <
- 100 PRINT "<C9><C1><15 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>"
- 110 PRINT "<C9><C1><15 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>"
- 120 PRINT "<C9><C1><15 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>"
- 130 PRINT "<C9><C1><15 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>"
- 140 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C1><5 SPACES><C0>"
- 150 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C1><5 SPACES><C0>"
- 160 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>"
- 170 PRINT "<C9><C1><5 SPACES><C0><5 SPACES><C9><C1><5 SPACES><C0>
 <5 SPACES><C9><C1><5 SPACES><C0>"

180 END

LINES 60 THROUGH 90 AND 140 THROUGH 170 ARE ALL THE SAME AND CAN BE COPIED INSTEAD OF ENTERED IN INDIVIDUALLY. THE SAME IS TRUE FOR LINES 100 THROUGH 130. TO COPY A LINE, ENTER THE LINE THE FIRST TIME, THEN CHANGE THE LINE NUMBER AND PRESS THE RETURN KEY.

G5.D06.W6.TC



LESSON PLAN

STRUCTIONAL AIDS:	TOOLS, EQUIPMENT AND MATERIALS:
COPIES OF THE NECESSARY HANDOUTS	CHALK, ERASER AND PENCILS 6 DISKS (6 FOR THE STUDENTS)

OBJECTIVE FOR THE DAY:

THE STUDENTS WILL USE THE SAVE & REPLACE COMMAND AND THE "VERIFY" COMMAND. THE STUDENTS WILL WORK ON SAMPLE GRAPHICS PROGRAM, CONTINUE WRITING THEIR OWN GRAPHICS PROGRAMS AND BE PREPARED FOR A TEST ON DAY 10.

INTRODUCTION:

COLLECT FROM THE STUDENTS:

QUIZ #6 (G5.D06.Q6.SC) (DUE DAY 7)

MOVE THE CLASS TO THE COMPUTER ROOM AND PROCEED WITH THE LESSON FOR THE DAY.

PRESENTATION:

THE STUDENTS WILL FIND A DISK AT THEIR ASSIGNED STATIONS. HAVE THE STUDENTS PROPERLY PLACE THE DISK INTO THE DISK DRIVE AND USE THE LOAD COMMAND TO TRANSFER A COPY OF YESTERDAY'S PROGRAM FROM DISK TO THE COMPUTER'S MEMORY. HAVE THE STUDENTS EXECUTE THE PROGRAM. IF THE PROGRAM IS NOT COMPLETE, THE STUDENTS SHOULD FINISH THE PROGRAM AND SAVE THE PROGRAM USING THE SAVE AND REPLACE COMMAND AND VERIFY COMMAND. IF THE PROGRAM IS COMPLETELY DONE, CLEAR MEMORY.

DISTRIBUTE COPIES OF:

*WORKSHEET #7 (G5.D07.W7.SC) WORKSHEET #7 (G5.D07.W7.SC2)

*FOR THE 1987-1988 SCHOOL YEAR, GIVE THE STUDENTS A COPY OF THE PROGRAM. ALL FUTURE SCHOOL YEARS, GIVE THE STUDENTS ONLY A COPY OF THE GRAPHICS.

THE STUDENTS SHOULD BE ABLE TO ENTER THE PROGRAM FROM THE GRAPHICS. IT MIGHT BE HELPFUL TO GIVE THE STUDENTS THE GRAPHICS WORKSHEET A DAY EARLIER, SO THEY COULD WRITE OUT THE PROGRAM AS HOMEWORK. THE GRAPHICS PICTURE FOR A SPECIFIC WORKSHEET ALWAYS HAS THE CODE "SC2" FOR THE STUDENT'S COPY AND "TC2" FOR THE TEACHER'S COPY. WHEN THE STUDENTS CORRECTLY COMPLETE THE WORKSHEET OR RUN OUT OF TIME, HAVE THE STUDENTS SAVE THE PROGRAM.

G5. DO7. LP. TC

LESSON PLAN CONTINUED PAGE 2

GRADE 5 - DAY 7 COMPUTER LITERACY TEACHER'S LESSON PLAN	
OBJECTIVE, INTRODUCTION, PRESENTATION, SUMMARY, STUDENT INVOLVEMENT, STUDENT EVALUATION, ADDITIONAL TOPIC	

SUMMARY:

REVIEW THE MATERIAL DISCUSSED DURING THE COURSE AND REMIND THE STUDENTS TO STUDY ALL MATERIAL IN PREPARATION FOR A FINAL TEST ON DAY TEN.
REMIND THE STUDENTS THAT THEIR MAJOR GRAPHICS PICTURE SHOULD BE DONE AND THE STUDENTS SHOULD BE WORKING ON THEIR MAJOR GRAPHICS PROGRAM BECAUSE THE TWO ITEMS ARE DUE ON DAY 10.

STUDENT INVOLVEMENT:

THE STUDENTS WILL BE WORKING ON A COMMODORE WITH A PARTNER.
THE STUDENTS WILL WORK TOWARD CORRECTLY COMPLETING A WORKSHEET.

STUDENT EVALUATION:

THE STUDENTS' QUIZZES WILL BE EVALUATED GIVING ONE POINT FOR EACH CORRECT ANSWER.
THE STUDENTS' PROGRESS ON THE WORKSHEETS SHOULD BE EVALUATED AND RECORDED ON THE BASIS OF TEN POINTS FOR A CORRECTLY COMPLETED WORKSHEET.

ADDITIONAL TOPIC:

IF THE STUDENTS FINISH WITH WORKSHEET #7, THE STUDENTS SHOULD BEGIN WRITING OUT THE PROGRAM FOR THEIR MAJOR GRAPHICS PICTURE AND FINISH THE PROGRAM AS HOMEWORK. THE STUDENTS SHOULD NOT ATTEMPT TO ENTER THIS PROGRAM UNTIL THEY HAVE THE FIRST PAGE OF STUDENT HANDOUT #3 DONE AND THE TEACHER HAS CHECKED IT.

CHECK THAT ALL COMPUTERS. MONITORS AND DISK DRIVES ARE TURNED OFF.

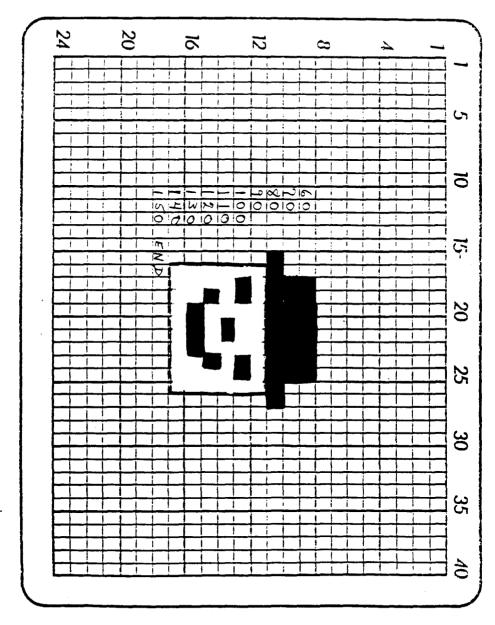
GRADE 5 - DAY 7 COMPUTER LITERACY	NAME
WORKSHEET 7 STUDENT'S COPY	SECTION
ENTER THE FOLLOWING PROGRAM:	
REM	
MODIFY THE ABOVE PROGRAM TO ADD SO GRAPHICS PICTURE. USE THE CODES <c9> F FOR <black> AND <c2> FOR <white>. BELO USE WHENEVER YOU WRITE A GRAPHICS PROGR</white></c2></black></c9>	OR <rvs on="">, <co> FOR <rvs off="">, <c1>W IS THE BASIC FORMAT THAT YOU SHOULD</c1></rvs></co></rvs>
90 PRINT "< SP> <c><c>< SP><c>"</c></c></c>	
100 PRINT "< SP> <c><c>< SP><c><</c></c></c>	SP> <c>< SP><c>< SP></c></c>
110 PRINT "< SP> <c><c>< SP><c><</c></c></c>	SP> <c>< SP><c>"</c></c>
120 PRINT "< SP> <c><c>< SP><c><</c></c></c>	SP> <c>< SP><c>< SP></c></c>

130 PRINT "< SP><C ><C >< SP><C >< SP><C >< SP><C >< SP><C >"

140 PRINT "< SP><C ><C >< SP><C >"

GRADE 5 - DAY 7
COMPUTER LITERACY WORKSHEET 7 STUDENT'S COPY #2

	161
NAME	
SECTION	



GRADE 5 - DAY 7
COMPUTER LITERACY
WORKSHEET 7
TEACHER'S COPY

NAME		 	162
SECTI	UN		

100

ENTER THE FOLLOWING PROGRAM:

- REM <CLOWN PROGRAM WITHOUT A FACE> 10
- <YOUR NAME AND SECTION> REM 15
- PRINT "<SHIFT/CLR-HOME>" 20
- POKE 53280,6 : POKE 53281.6 25
- FOR X = 1 TO 8 30
- PRINT 40
- NEXT X 50
- PRINT "<17 SP><C9><C1><8 SP><C0>" 60
- PRINT "<17 SP><C9><C1><8 SP><C0>" 70
- PRINT "<15 SP><C9><C1><12 SP><C0>" 80
- 90
- FOR Y = 1 TO 6
 PRINT "<16 SP><C9><C2><10 SP><C0>" 100
- NEXT Y 110
- END 120

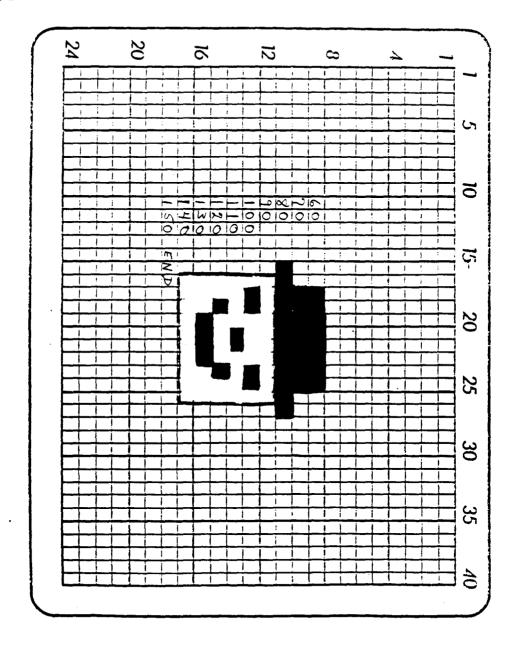
MODIFY THE ABOVE PROGRAM TO ADD SOMETHING TO THE CENTER AREA OF THE GRAPHICS PICTURE. USE THE CODES <C9> FOR <RVS ON>, <C0> FOR <RVS OFF>, <C1> FOR <BLACK> AND <C2> FOR <WHITE> BELOW IS THE BASIC FORMAT THAT YOU SHOULD DSE WHENEVER YOU WRITE A GRAPHICS PROGRAM.

- PRINT "<16 SP><C9><C2><10 SP><C0>" 90
- 100 PRINT "<16 SP><C9><C2><1 SP><C1><2 SP><C2><4 SP><C1><2 SP> <C2><1 SP><C0>"
- 110 PRINT "<16 SP><C9><C2><4 SP><C1><2 SP><C2><4 SP><C0>"
- PRINT "<16 SP><C9><C2><2 SP><C1><1 SP><C2><4 SP><C1><1 SP> 120 <C2><2 SP><C0>"
- 130 PRINT "<16 SP><C9><C2><3 SP><C1><4 SP><C2><3 SP><C0>"
- 140 PRINT "<16 SP><C9><C2><10 SP><C0>"
- 150 END

COPY LINE 100 FROM PROGRAM PROVIDED TO LINE 90 OF MODIFICATIONS DELETE LINES 100 - 120 (OPTIONAL) ADD LINES 100 - 150

G5. DO7. W7. TC

NAME		
SECTI	ON	



LESSON PLAN

GRADE 5 - DAY 8 COMPUTER LITERACY TEACHER'S LESSON PLAN	
INSTRUCTIONAL AIDS: COPIES OF THE NECESSARY HANDOUTS	TOOLS, EQUIPMENT AND MATERIALS: CHALK, ERASER AND PENCILS 6 DISKS (6 FOR THE STUDENTS)
OBJECTIVE, INTRODUCTION, PRESENTATION, S STUDENT EVALUATION, ADDITIONAL TOPIC	SUMMARY, STUDENT INVOLVEMENT,

OBJECTIVE FOR THE DAY:

THE STUDENTS WILL WORK ON SAMPLE GRAPHICS PROGRAM, CONTINUE WRITING THEIR OWN GRAPHICS PROGRAMS AND BE PREPARED FOR A TEST ON DAY 10.

INTRODUCTION:

MOVE THE CLASS TO THE COMPUTER ROOM AND PROCEED WITH THE LESSON FOR THE DAY.

PRESENTATION:

THE STUDENTS WILL FIND A DISK AT THEIR ASSIGNED STATIONS. HAVE THE STUDENTS PROPERLY PLACE THE DISK INTO THE DISK DRIVE AND USE THE LOAD COMMAND TO TRANSFER A COPY OF YESTERDAY'S PROGRAM FROM DISK TO THE COMPUTER'S MEMORY. HAVE THE STUDENTS EXECUTE THE PROGRAM. IF THE PROGRAM IS NOT COMPLETE, THE STUDENTS SHOULD FINISH THE PROGRAM AND SAVE THE PROGRAM USING THE SAVE AND REPLACE COMMAND AND VERIFY COMMAND. IF THE PROGRAM IS COMPLETELY DONE, CLEAR MEMORY.

DISTRIBUTE COPIES OF:

*WORKSHEET #8 (G5.D08.W8.SC) WORKSHEET #8 (G5.D08.W8.SC2)

*FOR THE 1987-1988 SCHOOL YEAR, GIVE THE STUDENTS A COPY OF THE PROGRAM. ALL FUTURE SCHOOL YEARS, GIVE THE STUDENTS ONLY A COPY OF THE GRAPHICS.

THE STUDENTS SHOULD BE ABLE TO ENTER THE PROGRAM FROM THE GRAPHICS. IT MIGHT BE HELPFUL TO GIVE THE STUDENTS THE GRAPHICS WORKSHEET A DAY EARLIER, SO THEY COULD WRITE OUT THE PROGRAM AS HOMEWORK. THE GRAPHICS PICTURE FOR A SPECIFIC WORKSHEET ALWAYS HAS THE CODE "SC2" FOR THE STUDENT'S COPY AND "TC2" FOR THE TEACHER'S COPY. WHEN THE STUDENTS CORRECTLY COMPLETE THE WORKSHEET OR RUN OUT OF TIME, HAVE THE STUDENTS SAVE THE PROGRAM.

G5. DO8. LP. TC

LESSON PLAN CONTINUED PAGE 2

GRADE 5 - DAY 8 COMPUTER LITERACY TEACHER'S LESSON PLAN
OBJECTIVE, INTRODUCTION, PRESENTATION, SUMMARY, STUDENT INVOLVEMENT, STUDENT EVALUATION, ADDITIONAL TOPIC

SUMMARY:

REVIEW THE MATERIAL DISCUSSED DURING THE COURSE AND REMIND THE STUDENTS TO STUDY ALL MATERIAL IN PREPARATION FOR A FINAL TEST ON DAY TEN.
REMIND THE STUDENTS THAT THEIR MAJOR GRAPHICS PICTURE SHOULD BE DONE AND THE STUDENTS SHOULD BE WORKING ON THEIR MAJOR GRAPHICS PROGRAM BECAUSE THE TWO ITEMS ARE DUE ON DAY 10.

STUDENT INVOLVEMENT:

THE STUDENTS WILL BE WORKING ON A COMMODORE WITH A PARTNER.
THE STUDENTS WILL WORK TOWARD CORRECTLY COMPLETING A WORKSHEET

STUDENT EVALUATION:

THE STUDENTS' PROGRESS ON THE WORKSHEETS SHOULD BE EVALUATED AND RECORDED ON THE BASIS OF TEN POINTS FOR A CORRECTLY COMPLETED WORKSHEET.

ADDITIONAL TOPIC:

IF THE STUDENTS FINISH WITH WORKSHEET #8, THE STUDENTS SHOULD BEGIN WRITING OUT THE PROGRAM FOR THEIR MAJOR GRAPHICS PICTURE AND FINISH THE PROGRAM AS HOMEWORK. THE STUDENTS SHOULD NOT ATTEMPT TO ENTER THIS PROGRAM UNTIL THEY HAVE THE FIRST PAGE OF STUDENT HANDOUT #3 DONE AND THE TEACHER HAS CHECKED IT.

CHECK THAT ALL COMPUTERS, MONITORS AND DISK DRIVES ARE TURNED OFF.

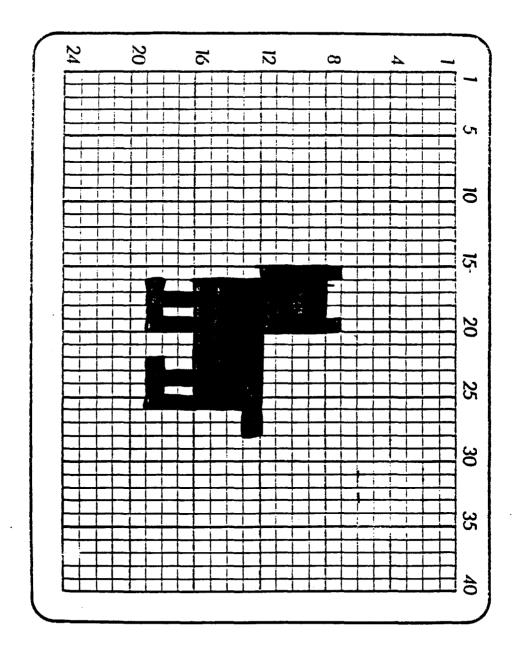
GRADE 5 - COMPUTER I	DAY 8 JITERACY
WORKSHEET	
STUDENT'S	COPY

NAME	166
SECTION	

ENTER THE FOLLOWING PROGRAM:

```
10 REM <PROGRAM NAME>
15 REM <YOUR NAME AND SECTION>
```

- 20 PRINT "<SHIFT/CLR-HOME>"
- 25 POKE 53280,6 : POKE 53281,6
- 30 FOR X = 1 TO 7
- 40 PRINT
- 50 NEXT X
- 60 PRINT "<15 SP><C9><C1><1 SP><C7><3 SP><C1><1 SP><C0>"
- 70 FOR X = 1 TO 4
- 80 PRINT "<15 SP><C9><C1><5 SP><C0>"
- 90 NEXT X
- 95 PRINT "<16 SP><C9><C1><12 SP><C0>"
- 100 FOR X = 1 TO 3
- 110 PRINT "<16 SP><C9><C1><10 SP><C0>"
- 120 NEXT X
- 130 PRINT "<17 SP><C9><C1><1 SP><C7><1 SP><C1><1 SP><C7><3 SP><C1><1 SP><C7><3 SP><C1><1 SP><C7><1 SP><C0>"
- 140 PRINT "<17 SP><C9><C1><1 SP><C7><1 SP><C1><1 SP><C7><3 SP><C1>
 <1 SP><C7><3 SP><C1>
 <1 SP><C7><1 SP><C0>"
- 150 PRINT "<16 SP><C9><C1><4 SP><C7><2 SP><C1><4 SP><C0>"
- 160 END



GRADE 5 -	DAY 8	1
COMPUTER I	'LIEKACI	•
WORKSHEET	8	
TEACHER'S	COPY	

		168
AME	 	

SECTION ____

ENTER THE FOLLOWING PROGRAM:

10 REM <PUPPY DOG>

15 REM <YOUR NAME AND SECTION>

20 PRINT "<SHIFT/CLR-HOME>"

25 POKE 53280,6 : POKE 53281,6

30 FOR X = 1 TO 7

40 PRINT

50 NEXT X

60 PRINT "<15 SP><C9><C1><1 SP><C7><3 SP><C1><1 SP><C0>"

70 FOR X = 1 TO 4

80 PRINT "<15 SP><C9><C1><5 SP><C0>"

90 NEXT X

95 PRINT "<16 SP><C9><C1><12 SP><C0>"

100 FOR X = 1 TO 3

110 PRINT "<16 SP><C9><C1><10 SP><C0>"

120 NEXT X

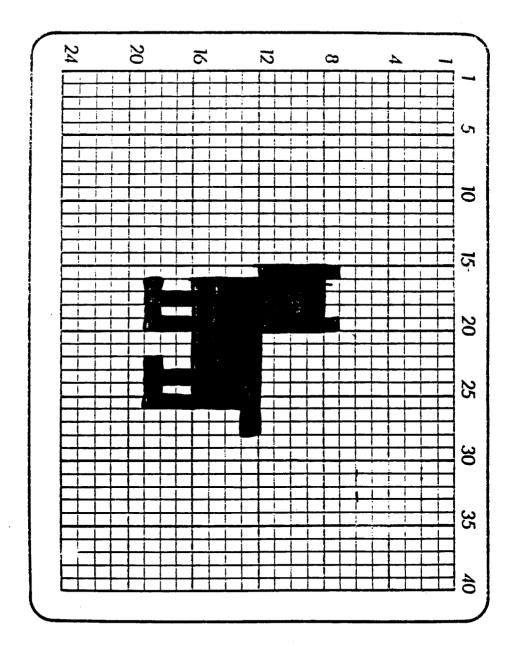
130 PRINT "<17 SP><C9><C1><1 SP><C7><1 SP><C1><1 SP><C7><3 SP><C1><1 SP><C7><3 SP><C1><1 SP><C7><1 SP><C0>"

140 PRINT "<17 SP><C9><C1><1 SP><C7><1 SP><C1><1 SP><C7><3 SP><C1><1 SP><C7><3 SP><C1><1 SP><C7><1 SP><C0>"

150 PRINT "<16 SP><C9><C1><4 SP><C7><2 SP><C1><4 SP><C0>"

160 END

SECTION ____



LESSON PLAN

INSTRUCTIONAL AIDS:	TOOLS, EQUIPMENT AND MATERIALS
COPIES OF THE NECESSARY HANDOUTS	CHALK, ERASER AND PENCILS 6 DISKS (6 FOR THE STUDENTS)

OBJECTIVE FOR THE DAY:

THE STUDENTS WILL FINISH WRITING THEIR OWN GRAPHICS PROGRAMS, WORK ON SAMPLE GRAPHICS PROGRAM AND BE PREPARED FOR A TEST ON DAY 10.

INTRODUCTION:

MOVE THE CLASS TO THE COMPUTER ROOM AND PROCEED WITH THE LESSON FOR THE DAY.

PRESENTATION:

THE STUDENTS WILL FIND A DISK AT THEIR ASSIGNED STATIONS. HAVE THE STUDENTS PROPERLY PLACE THE DISK INTO THE DISK DRIVE AND USE THE LOAD COMMAND TO TRANSFER A COPY OF YESTERDAY'S PROGRAM FROM DISK TO THE COMPUTER'S MEMORY. HAVE THE STUDENTS EXECUTE THE PROGRAM. IF THE PROGRAM IS NOT COMPLETE, THE STUDENTS SHOULD FINISH THE PROGRAM AND SAVE THE PROGRAM USING THE SAVE AND REPLACE COMMAND AND VERIFY COMMAND. IF THE PROGRAM IS COMPLETELY DONE, CLEAR MEMORY.

IF THE STUDENTS HAVE FINISHED WORKSHEET #8, THE STUDENTS SHOULD BEGIN WRITING OUT THE PROGRAM FOR THEIR MAJOR GRAPHICS PICTURE AND FINISH THE PROGRAM AS HOMEWORK. THE STUDENTS SHOULD NOT ATTEMPT TO ENTER THIS PROGRAM UNTIL THEY HAVE THE FIRST PAGE OF STUDENT HANDOUT #3 DONE AND THE TEACHER HAS CHECKED IT.

LESSON PLAN CONTINUED PAGE 2

GRADE 5 - DAY 9 COMPUTER LITERACY TEACHER'S LESSON PLAN

OBJECTIVE, INTRODUCTION, PRESENTATION, SUMMARY, STUDENT INVOLVEMENT, STUDENT EVALUATION, ADDITIONAL TOPIC

SUMMARY:

REVIEW THE MATERIAL DISCUSSED DURING THE COURSE AND REMIND THE STUDENTS TO STUDY ALL MATERIAL IN PREPARATION FOR A FINAL TEST ON DAY TEN.
REMIND THE STUDENTS THAT THEIR MAJOR GRAPHICS PICTURE SHOULD BE DONE AND THE STUDENTS SHOULD BE WORKING ON THEIR MAJOR GRAPHICS PROGRAM BECAUSE THE TWO ITEMS ARE DUE ON DAY 10.

STUDENT INVOLVEMENT:

THE STUDENTS WILL BE WORKING ON A COMMODORE WITH A PARTNER.
THE STUDENTS WILL WORK TOWARD CORRECTLY COMPLETING A WORKSHEET.

STUDENT EVALUATION:

THE STUDENTS' PROGRESS ON THE WORKSHEETS SHOULD BE EVALUATED AND RECORDED ON THE BASIS OF TEN POINTS FOR A CORRECTLY COMPLETED WORKSHEET.

ADDITIONAL TOPIC:

IF THE STUDENTS HAVE THEIR MAJOR GRAPHICS PICTURE AND PROGRAM DONE.

DISTRIBUTE COPIES OF:

*WORKSHEET #9 (G5.D09.W9.SC) WORKSHEET #9 (G5.D09.W9.SC2)

*FOR THE 1987-1988 SCHOOL YEAR, GIVE THE STUDENTS A COPY OF THE PROGRAM. ALL FUTURE SCHOOL YEARS, GIVE THE STUDENTS ONLY A COPY OF THE GRAPHICS.

THE STUDENTS SHOULD BE ABLE TO ENTER THE PROGRAM FROM THE GRAPHICS. IT MIGHT BE HELPFUL TO GIVE THE STUDENTS THE GRAPHICS WORKSHEET A DAY EARLIER, SO THEY COULD WRITE OUT THE PROGRAM AS HOMEWORK. THE GRAPHICS PICTURE FOR A SPECIFIC WORKSHEET ALWAYS HAS THE CODE "SC2" FOR THE STUDENT'S COPY AND "TC2" FOR THE TEACHER'S COPY. WHEN THE STUDENTS CORRECTLY COMPLETE THE WORKSHEET OR RUN OUT OF TIME, HAVE THE STUDENTS SAVE THE PROGRAM.

CHECK THAT ALL COMPUTERS, MONITORS AND DISK DRIVES ARE TURNED OFF.

G5.D09.LP.TC

GRADE 5 -	D	AY 9		
COMPUTER I	LIT	rera(CY	
WORKSHEET				ON
CTUDENT'S				

NAME	172
SECTION	

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ENTER THE FOLLOWING PROGRAM:

10	REM	<program name=""></program>				
15	REM	<pre><your_name and="" section=""></your_name></pre>				

- PRINT "<SHIFT/CLR-HOME>"
- POKE 53280.2 : POKE 53281.2 25
- FOR X = 1 TO 4 30
- PRINT An

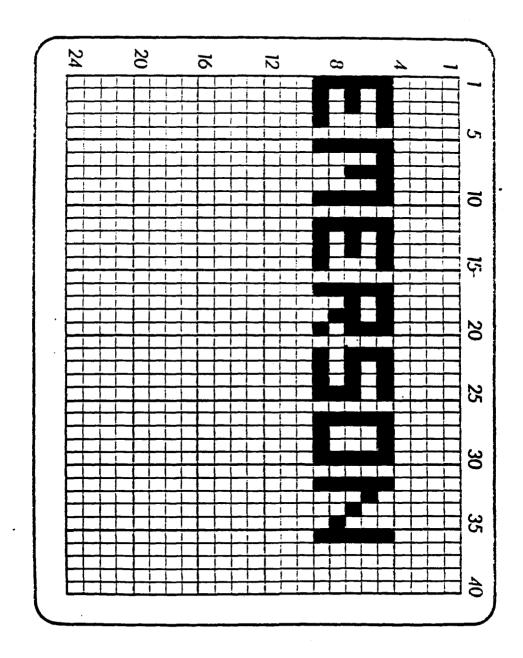
20

- NEXT X 50
- PRINT "<C9><C7><4 SP><C3><1 SP><C7><5 SP><C3><1 SP><C7><4 SP><C3> <1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C7><4 SP><C3><1 SP><C7> <1 SP><C3><3 SP><C7><1 SP><C0>"
- PRINT "<C9><C7><1 SP><C3><4 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><1 SP><C3><1 SP><1 SP><C3><1 SP><1 SP><C3><1 70 <1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><4 SP><C7><1 SP><C3><2 SP><C7> <1 SP><C3><1 SP><C7><1 SP><C3><4 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3> <1 SP><C7><2 SP><C3><2 SP><C7><1 SP><C0>"
- 80 PRINT "<C9><C7><3 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3> <1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><3 SP><C3><2 SP><C7><4 SP><C3><1 SP><C3><1 SP><C7>
 <4 SP><C3><1 SP><C3 <1 SP><C3><1 SP><C7><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C0>"
- PRINT "<C9><C7><1 SP><C3><3 SP><C7><1 SP><C3><3 SP><C7><1 SP><C3><3 SP><C7><1 SP><C3> 90 <1 SP><C7><1 SP><C3><4 SP><C7><1 SP><C3><1 SP><C7><1 SP><C7><1 SP><C3><5 SP><C7> <1 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><</pre> <2 SP><C7><2 SP><C0>"
- PRINT "<C9><C7><4 SP><C3><1 SP><C7><1 SP><C3><3 SP><C7><1 SP><C3><3 SP><C7><1 SP><C3> <1 SP><C7><4 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><1 SP><C3><1 SP><C3> <4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><1 SP><C3><3 SP><C7><1 SP><C7><1 SP><C0>"

110 END

GRADE 5 - DAY 9
COMPUTER LITERACY
WORKSHEET 9
STUDENT'S COPY #2

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NAME		 	 	
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GRADE 5 -	DA	AY 9	
COMPUTER I	I.	'ERA	CA .
WORKSHEET	9	FOR	HIAWATHA
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A A A A CT		1/4	
NAME			
SECTI	ION		

ENTER THE FOLLOWING PROGRAM:

```
10 REM <PROGRAM NAME>

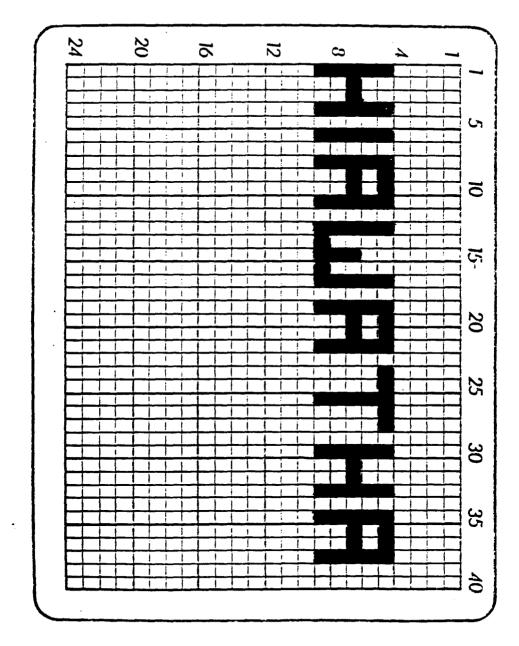
15 REM <PROGRAM NAME AND SECTION>

20 PRINT "<SHIFT/CLR-HOME>"
```

- 25 POKE 53280,2 : POKE 53281,2
- 30 FOR X = 1 TO 4
- 40 PRINT
- 50 NEXT X
- 60 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C7><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 70 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><2 SP><C7><1 SP><C3><2 SP><C7><2 SP><C
- 80 PRINT "<C9><C7><4 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 90 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C7><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 100 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><

GRADE 5 - DAY 9 COMPUTER LITERACY WORKSHEET 9 STUDENT'S COPY #2

	115
NAME	
SECTION	



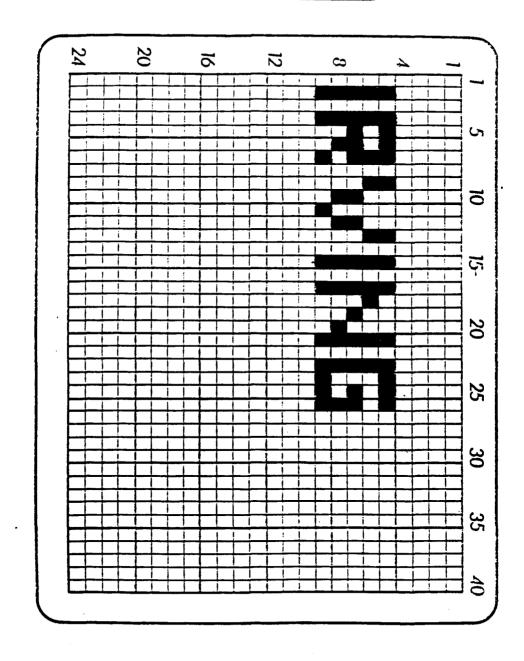
GRADE 5 -	\mathbf{D}_{I}	AY 9		
COMPUTER I	.17	rerac	Y	
WORKSHEET	9	FOR	IRVI	NG
CONTINUENT'S				

NAME	,	176
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ENTER THE FOLLOWING PROGRAM:

10	REM	<program name=""></program>
15	REM	<pre><your and="" name="" section=""></your></pre>

- 20 PRINT "<SHIFT/CLR-HOME>"
- 25 POKE 53280,2 : POKE 53281,2
- 30 FOR X = 1 TO 4
- 40 PRINT
- 50 NEXT X
- 60 PRINT "<1 SP><C9><C7><1 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><1 SP><C3><3 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1
- 70 PRINT "<1 SP><C9><C7><1 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><3 SP><C7><1 SP><C3><1 SP><C3><1
- 80 PRINT "<1 SP><C9><C7><1 SP><C3><1 SP><C7><4 SP><C3><2 SP><C7><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1
- 90 PRINT "<1 SP><C9><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1
- 100 PRINT "<1 SP><C9><C7><1 SP><C3><1 SP><C7><1 SP><C7><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C7><1 SP><C3><3 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><C3><1 SP><C3><1 SP><



GRADE 5 -	D	٩Y	9	
COMPUTER I	l'I	TER	AC	Y
WORKSHEET	9	FC	\mathbf{R}	KOMENSKY
COUDENT'S				

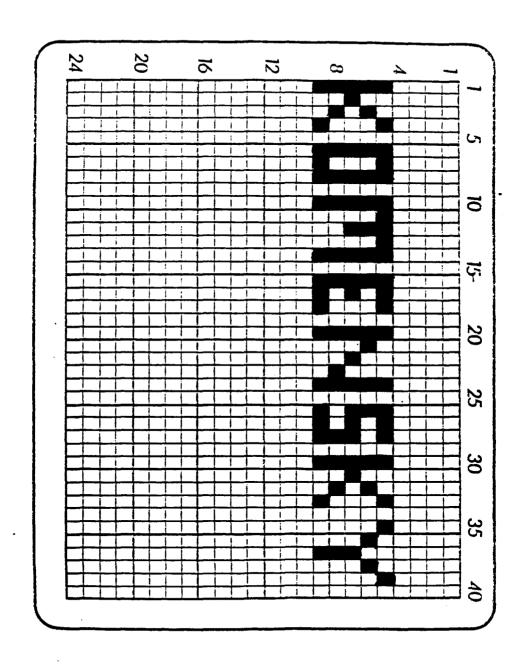
NAME	1	178
MAITE.		
SECTI	ON	

ENTER THE FOLLOWING PROGRAM:

```
        10
        REM
        < PROGRAM NAME >

        15
        REM
        < YOUR NAME AND SECTION >
```

- 20 PRINT "<SHIFT/CLR-HOME>"
- 25 POKE 53280,2 : POKE 53281,2
- 30 FOR X = 1 TO 4
- 40 PRINT
- 50 NEXT X
- 60 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C7><3 SP><C3><1 SP><C7><3 SP><C3><1 SP><C7><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 70 PRINT "<C9><C7><1 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><3 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C3><1 SP><C3><1 SP><C3><1 SP><C3><1 SP><C3><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 80 PRINT "<C9><C7><2 SP><C3><3 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 90 PRINT "<C9><C7><1 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C
- 100 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><3 SP><C3><3 SP><C3><1 SP><C7><3 SP><C3><1 SP><



GRADE 5 -	D	AY 9		
COMPUTER I	11	'ERA		
WORKSHEET	9	FOR	PERSHING	ì
STIDENT'S	CO	PY		

NAME	180
SECTION	

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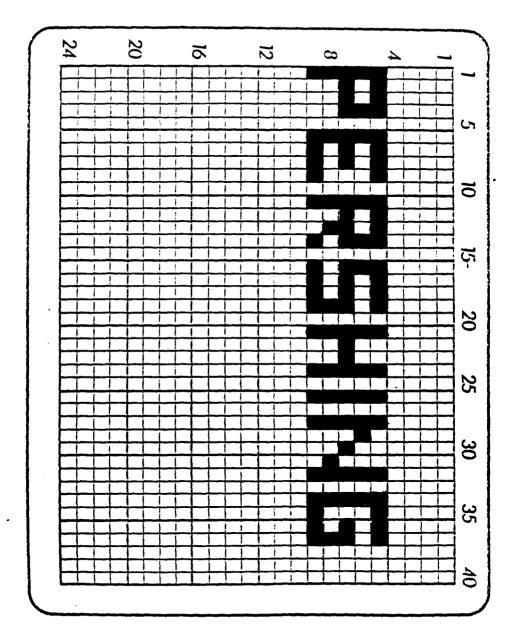
ENTER THE FOLLOWING PROGRAM:

10 REM <PROGRAM NAME>

- 15 REM <YOUR NAME AND SECTION>
- 20 PRINT "<SHIFT/CLR-HOME>"
- 25 POKE 53280,2 : POKE 53281,2
- 30 FOR X = 1 TO 4
- 40 PRINT
- 50 NEXT X
- 60 PRINT "<C9><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><<1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><</td><1 SP><C3><1 SP><C
- 70 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><4 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><1 SP><C3><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C
- 80 PRINT "<C9><C7><4 SP><C3><1 SP><C7><3 SP><C3><2 SP><C7><4 SP><C3><1 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 90 PRINT "<C9><C7><1 SP><C3><4 SP><C7><1 SP><C3><4 SP><C7><1 SP><C3><1 SP><C3><4 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><2 SP><C7><2 SP><C7><2 SP><C7><2 SP><C7><2 SP><C3><2 SP><C7><2 SP><C7><2 SP><C3><2 SP><C7><2 SP><C3><2 SP><C7><2 SP><C3><2 SP><C7><2 SP><C3><2 SP><C7><2 SP><C3><2 SP><C3><2 SP><C7><2 SP><C3><2 SP><C

GRADE 5 - DAY 9
COMPUTER LITERACY
WORKSHEET 9
STUDENT'S COPY #2

	101
NAME	
	•
SECTION	



NAME	 182
SECTION	

ENTER THE FOLLOWING PROGRAM:

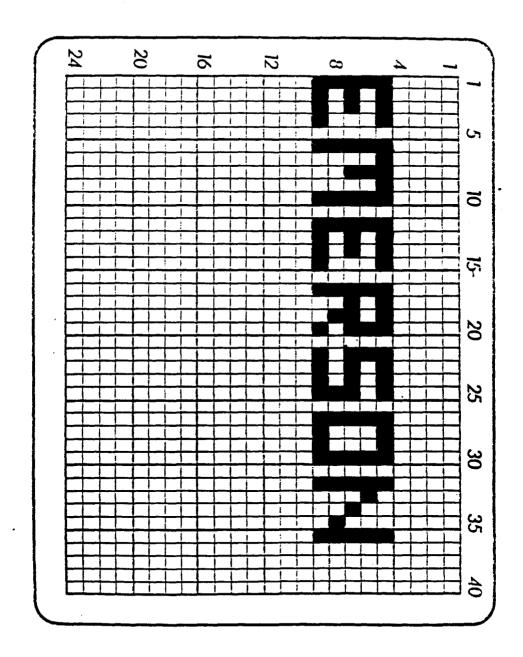
10 REM EMERSON SCHOOL PROGRAM

15 REM < YOUR NAME AND SECTION>

- 20 PRINT "<SHIFT/CLR-HOME>"
- 25 POKE 53280,2 : POKE 53281,2
- 30 FOR X = 1 TO 4
- 40 PRINT
- 50 NEXT X
- 60 PRINT "<C9><C7><4 SP><C3><1 SP><C7><5 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 70 PRINT "<C9><C7><1 SP><C3><4 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 80 PRINT "<C9><C7><3 SP><C3><2 SP><C7><1 SP><C3><1 SP><C7><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><2 SP><C7><2 SP><C7><2 SP><C7><2 SP><C7><2 SP><C7><2 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 90 PRINT "<C9><C7><1 SP><C3><3 SP><C7><1 SP><C3><3 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><5 SP><C7><1 SP><C3><5 SP><C7><1 SP><C3><6 SP><C7><1 SP><C3><1 SP><C3><6 SP><C7><1 SP><C3><6 SP><C7><6 SP><C7><6 SP><C3><6 SP><C7><6 SP><C7><6 SP><C3><6 SP><C7><6 SP><C3><6 SP><C7><6 SP><C3><6 SP><C
- 100 PRINT "<C9><C7><4 SP><C3><1 SP><C7><1 SP><C3><3 SP><C7><1 SP><C3><<1 SP><C3><1 SP>

GRADE 5 - DAY 9
COMPUTER LITERACY
WORKSHEET 9
TEACHER'S COPY #2

	10.)
NAME		-
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GRADE 5 - COMPUTER I	JI'l	LEKA(CY
WORKSHEET TEACHER'S	9	FOR	HIAWATHA

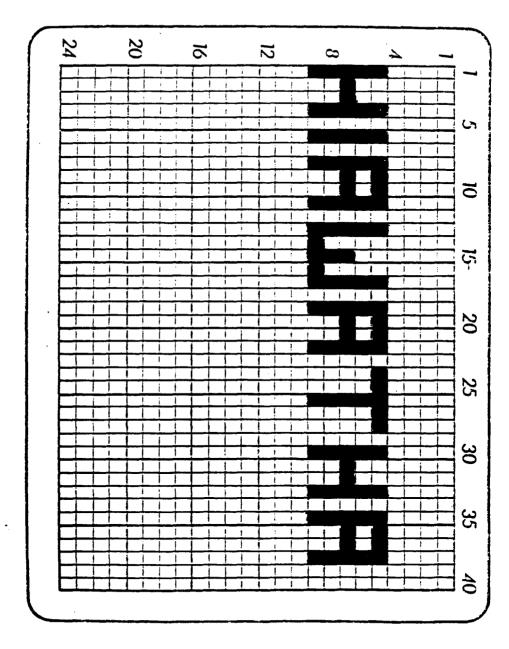
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ENTER THE FOLLOWING PROGRAM:

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10 REM HIAWATHA SCHOOL PROGRAM
15 REM < YOUR NAME AND SECTION>
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- 20 PRINT "<SHIFT/CLR-HOME>"
- 25 POKE 53280,2 : POKE 53281,2
- 30 FOR X = 1 TO 4
- 40 PRINT
- 50 NEXT X
- 60 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 70 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><3 SP><C7><1 SP><C3><3 SP><C7><1 SP><C3><3 SP><C7><1 SP><C3><3 SP><C7><3 SP><C7><1 SP><C3><3 SP><C7><C7><C7><C7><C7><C7><C7 SP><C8><C7><C7><C7><C7><C7><C7 SP><C7><C7><C7><C7 SP><C7><C7><C7 SP><C7><C7><C7 SP><C7><C7><C7 SP><C7><C7 SP><C7><C7 SP><C7><C7 SP><C7><C7 SP><C7><C7 SP><C7><C7 SP><C7><C7 SP><C7 SP><C7><C7 SP><C7 S
- 80 PRINT "<C9><C7><4 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 90 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><1 SP><C
- 100 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><

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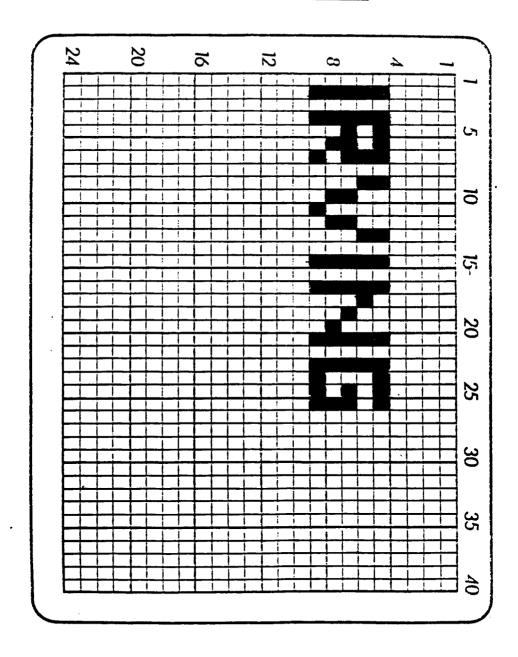
GRADE 5 -	D	AY 9		
COMPUTER I	.17	'ERAC	Y.	
WORKSHEET	9	FOR	IRVING	
TEACHER'S	CC	PY		

NAME	100
SECT	I ON

100

ENTER THE FOLLOWING PROGRAM:

- 10 REM _____IRVING SCHOOL PROGRAM
- 15 REM ____ <YOUR NAME AND SECTION>
- 20 PRINT "<SHIFT/CLR-HOME>"
- 25 POKE 53280,2 : POKE 53281,2
- 30 FOR X = 1 TO 4
- 40 PRINT
- 50 NEXT X
- 60 PRINT "<1 SP><C9><C7><1 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><1 SP><C3><3 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1
- 70 PRINT "<1 SP><C9><C7><1 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><2 SP><C7><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><1
- 80 PRINT "<1 SP><C9><C7><1 SP><C3><1 SP><C7><4 SP><C3><2 SP><C7><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1
- 90 PRINT "<1 SP><C9><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C7><1 SP><C3><2 SP><C7><2 SP><C7><1 SP><C3><2 SP><C7><2 SP><C7><2 SP><C3><2 SP><C7><2 SP><C7><2 SP><C3><2 SP><C7><2 SP><C3><2 SP><C7><2 SP><C3><2 SP><C7><2 SP><C3><2 SP><C3><2
- 100 PRINT "<1 SP><C9><C7><1 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C7><3 SP><C7><1 SP><C3><3 SP><C7><3 SP><C7><1 SP><C3><3 SP><C7><3 SP><C7><1 SP><C3><3 SP><C7><3 SP><C7><5 SP><C7><



GRADE 5 - I	JAY 9 [TERA(CY.
WORKSHEET S	FOR	KOMENSKY

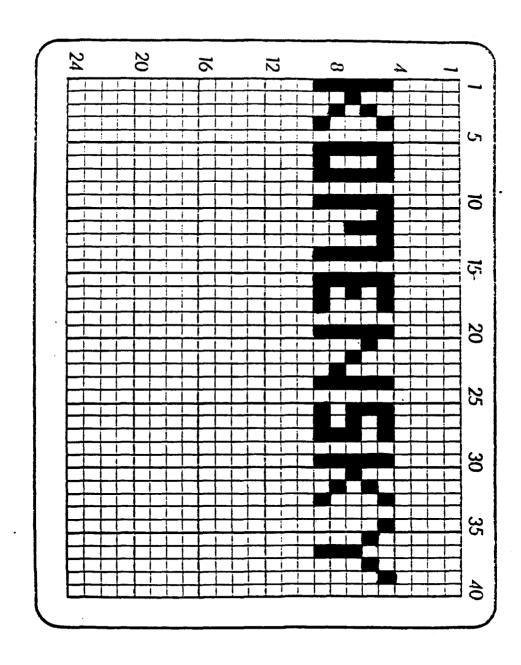
NAME	_		188
SECTION	ON	- 111	

ENTER THE FOLLOWING PROGRAM:

- 10 REM KOMENSKY SCHOOL PROGRAM
- 15 REM < YOUR NAME AND SECTION>
- 20 PRINT "<SHIFT/CLR-HOME>"
- 25 POKE 53280,2 : POKE 53281,2
- 30 FOR X = 1 TO 4
- 40 PRINT
- 50 NEXT X
- 60 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C7><3 SP><C3><
 1 SP><C7><3 SP><C3><1 SP><C7><3 SP><C3><1 SP><C7><3 SP><C3><1 SP><C7><3 SP><C3><1 SP><C3><
 1 SP><C3><1 SP>
- 70 PRINT "<C9><C7><1 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><3 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 80 PRINT "<C9><C7><2 SP><C3><3 SP><C7><1 SP><C3><1 SP><C7><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 90 PRINT "<C9><C7><1 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><3 SP><C7><1 SP><C3><1 SP><C
- 100 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C7><3 SP><C3><1 SP><C7><3 SP><C3><1 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><1 SP><

GRADE 5 - DAY 9 COMPUTER LITERACY WORKSHEET 9 TEACHER'S COPY #2

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GRADE 5 -	DAY	7 9	
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NAME	190
SECTION	!

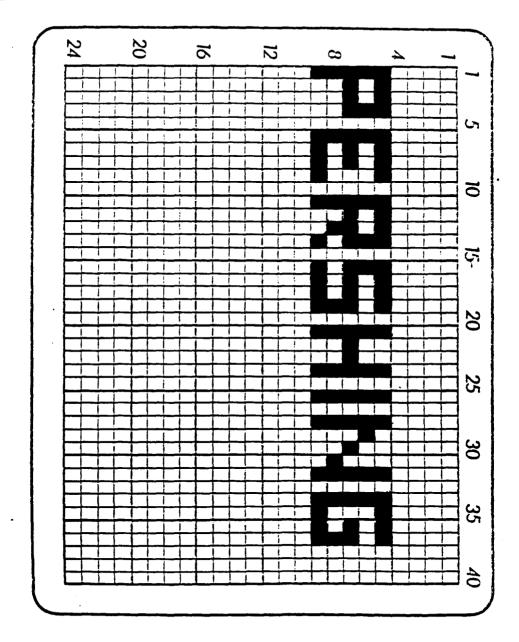
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ENTER THE FOLLOWING PROGRAM:

- 10 REM PERSHING SCHOOL PROGRAM
- 15 REM < YOUR NAME AND SECTION>
- 20 PRINT "<SHIFT/CLR-HOME>"
- 25 POKE 53280,2 : POKE 53281,2
- 30 FOR X = 1 TO 4
- 40 PRINT
- 50 NEXT X
- 60 PRINT "<C9><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><1 SP><C7><1 SP><C3><1 SP><C
- 70 PRINT "<C9><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><1 SP><C7><1 SP><C3><4 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><1 SP><C3><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C
- 80 PRINT "<C9><C7><4 SP><C3><1 SP><C7><3 SP><C3><2 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><1 SP><C3><1 SP><C
- 90 PRINT "<C9><C7><1 SP><C3><4 SP><C7><1 SP><C3><4 SP><C7><1 SP><C3><1 SP><C3><4 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><2 SP><C7><2 SP><C
- 100 PRINT "<C9><C7><1 SP><C3><4 SP><C7><4 SP><C3><1 SP><C7><1 SP><C3><
 2 SP><C7><1 SP><C3><1 SP><C7><4 SP><C3><1 SP><C7><1 SP><C3><2 SP><C7><1 SP><C3><1 SP><C3><

GRADE 5 - DAY 9 COMPUTER LITERACY WORKSHEET 9 TEACHER'S COPY #2

	191
NAME	
SECTION	



LESSON PLAN

GRADE 5 - DAY 10 COMPUTER LITERACY TEACHER'S LESSON PLAN	
TEACHER S LESSON FLAN	
INSTRUCTIONAL AIDS:	TOOLS, EQUIPMENT AND MATERIALS:
COPIES OF TEST # 1	CHALK, ERASER AND PENCILS
	<u> </u>
OBJECTIVE, INTRODUCTION, PRESENT	
STUDENT EVALUATION, ADDITIONAL	TOPIC

OBJECTIVE FOR THE DAY:

INTRODUCTION:

REVIEW WITH THE STUDENTS THE MATERIAL COVERED AT THE PREVIOUS CLASSES AND GIVE A TEST IN THE HOMEROOM.

PRESENTATION:

DISTRIBUTE COPIES OF:

TEST #1 (G5.D010.T1.SC)

ADMINISTER THE TEST.

INSTRUCTIONS FOR THE MATCHING SECTION:

"THERE ARE 12 DEFINITIONS AND 12 WORDS. WRITE THE LETTER A - L ON THE LINE NEXT TO THE CORRECT DEFINITION. EACH LINE IS WORTH ONE POINT"

INSTRUCTIONS FOR THE TRUE AND FALSE SECTION:
"THERE ARE 7 TRUE OR FALSE QUESTIONS. WRITE A "T" OR A "F" ON THE LINE NEXT TO

THE PROBLEM NUMBER. EACH LINE IS WORTH ONE POINT." INSTRUCTIONS FOR PAGE TWO OF THE TEST:

"THE FIRST PROGRAM HAS SIX LINES OF PROGRAMMING. EACH LINE IS WORTH ONE POINT. COMPLETE THE LINES WITH THE PROPER PROGRAMMING. PROBLEMS B,C AND D ARE EACH WORTH ONE POINT. THE SECOND PROGRAM HAS TWO LINES OF PROGRAMMING. COMPLETE THE LINES WITH THE PROPER PROGRAMMING. EACH LINE IS WORTH ONE POINT."

COLLECT FROM THE STUDENTS:

MAJOR GRAPHICS PICTURE MAJOR GRAPHICS PROGRAM

G5. D10. LP. TC

LESSON PLAN CONTINUED PAGE 2

GRADE 5 - DAY 10
COMPUTER LITERACY
TEACHER'S LESSON PLAN
OBJECTIVE, INTRODUCTION, PRESENTATION, SUMMARY, STUDENT INVOLVEMENT,
STUDENT EVALUATION, ADDITIONAL TOPIC

SUMMARY:

IF THERE IS TIME AVAILABLE, YOU COULD DISCUSS THE QUESTIONS THAT WERE ON TODAY'S TEST.

STUDENT INVOLVEMENT:

THE STUDENTS WILL BE WORKING INDEPENDENTLY ON A TEST.

STUDENT EVALUATION:

THE STUDENTS' TESTS WILL BE EVALUATED GIVING THE APPROPRIATE POINT VALUE FOR EACH CORRECT ANSWER.

THE STUDENTS' MAJOR GRAPHICS PICTURE WILL BE EVALUATED GIVING 24 POINTS FOR A COMPLETED PICTURE.

THE STUDENTS' MAJOR GRAPHICS PROGRAM WILL BE EVALUATED GIVING 26 POINTS FOR A CORRECTLY COMPLETED PROGRAM.

ADDITIONAL TOPIC:

CHECK THAT ALL COMPUTERS, MONITORS AND DISK DRIVES ARE TURNED OFF.

G5.D10.LP.TC

GRADE 5 - DAY 10 COMPUTER LITERACY TEST 1 - DAY 10 STUDENT'S COPY		NAME			
		SECTION		_	
MATCHI	NG:				
1.	COMMAND THAT ERASES THE PROGRAM CURRENTLY IN MEMORY.		A .	SHIFT/CLR-HOME	
2	COMMAND THAT DISPLAYS CHARACTERS	IN THE	В.	PROGRAM	
	OUTPUT OF A PROGRAM.	IN THE	C.	LIST	
3.	THE COMPUTER LANGUAGE USED IN TH	IS CLASS.	D.	NEW	
4.	. COMMAND THAT EXECUTES THE PROGRAM CURRENTLY IN MEMORY.		E.	CURSOR	
5			F .	REM	
	5. A T.VLIKE UNIT CONNECTED TO THE COMPUTE			RETURN	
6.	6. CLEARS THE SCREEN AND SENDS THE CURSOR TO THE UPPER LEFT CORNER OF THE MONITOR.			MONITOR	
7	COMMAND THAT DISPLAYS THE PROGRAMMEMORY ON THE SCREEN.		I.	SAVE	
'.		11	J .	PRINT	
8.	BLINKING BOX THAT SHOWS WHERE YOU WORKING ON THE SCREEN.	U ARE	K.	RUN	
9.	KEY PRESSED TO ENTER INFORMATION INTO THE COMPUTER'S MEMORY.		L.	BASIC	
10	A GROUP OF STATEMENTS COMBINED TO FOR THE COMPUTER TO FOLLOW.	OGETHER			
11	COMMAND THAT ALLOWS THE WRITER TO REMARKS INTO A PROGRAM WITHOUT CO. THE PROGRAM.	O PUT HANGING			
12	COMMAND THAT TELLS THE COMPUTER OF A PROGRAM FROM THE COMPUTER ONTO				
TRUE O	R FALSE:				
1.	LINE NUMBERS MUST ALWAYS BE INC	REMENTED BY 10	'S.		
2.	WHEN THE COMPUTER IS TURNED OFF	, YOUR PROGRAM	IS L	OST.	
3.	DEBUGGING IS DONE WHEN A PROGRAM	M HAS A SYNTAX	ERRO	R.	
4.	4. IF YOU CLEAR THE SCREEN, YOUR PROGRAM WILL BE CLEARED FROM THE COMPUTER'S MEMORY.				
5.	5. A COMPUTER IS A MACHINE THAT PERFORMS TASKS AT A HIGH SPEED WITH GREAT ACCURACY.				
6.	6. THE COMMAND TO TRANSFER A COPY OF YOUR PROGRAM FROM DISK TO THE COMPUTER'S MEMORY IS KNOWN AS LOAD.				

G5.D10.T10.SC

_____7. ALL COMMANDS ARE THE SAME FOR ANY COMPUTER.

COMP	UTER	DAY 10 LITERACY	NAME	195
		DAY 10 COPY - PAGE 2	SECTION	
WRIT	ING A	PROGRAM:		
A .		E A PROGRAM TO DISPLAY LETE ADDRESS IN THE SC		
	10	REM		
	20	PRINT		
	30			
	40			_
	50			_
	60			
B. C.	COMM	AND YOU WOULD USE TO E AND THAT WILL DISPLAY ' SCREEN:	EXECUTE THIS PROGRAM: THE PROGRAM IN MEMORY ON THE	
D.	COMM	AND THAT IS MISSING FR	OM THIS STATEMENT:	
	30	53280,14		
E.		30 AND 40 ARE MISSING UCE ONLY THE FOLLOWING	. WRITE A LINE OF PROGRAMMING THAT W	ILL
_4	A COL	OR BAR FOUR SPACES OF	BLACK AND FOUR SPACES OF YELLOW	
	10	REM TEST PROGRAM		
	20	REM QUESTION IS WORT	H 2 POINTS	
	30	PRINT "		
	40 _			
	50	END		

G5.D10.T10.SC

GRADE 5 -	
COMPUTER TEST 1 -	
TEACHER'S	

NAME	
SECTION	

MATCHING:

- D _1. COMMAND THAT ERASES THE PROGRAM CURRENTLY IN MEMORY.
- J 2. COMMAND THAT DISPLAYS CHARACTERS IN THE OUTPUT OF A PROGRAM.
- I. 3. THE COMPUTER LANGUAGE USED IN THIS CLASS.
- K 4. COMMAND THAT EXECUTES THE PROGRAM CURRENTLY IN MEMORY.
- H 5. A T.V.-LIKE UNIT CONNECTED TO THE COMPUTER.
- A 6. CLEARS THE SCREEN AND SENDS THE CURSOR TO THE UPPER LEFT CORNER OF THE MONITOR.
- C 7. COMMAND THAT DISPLAYS THE PROGRAM IN MEMORY ON THE SCREEN.
- E_8. BLINKING BOX THAT SHOWS WHERE YOU ARE WORKING ON THE SCREEN.
- G 9. KEY PRESSED TO ENTER INFORMATION INTO THE COMPUTER'S MEMORY.
- B 10.A GROUP OF STATEMENTS COMBINED TOGETHER FOR THE COMPUTER TO FOLLOW.
- F 11. COMMAND THAT ALLOWS THE WRITER TO PUT REMARKS INTO A PROGRAM WITHOUT CHANGING THE PROGRAM.
- 12. COMMAND THAT TELLS THE COMPUTER TO MOVE A PROGRAM FROM THE COMPUTER ONTO A DISK.

TRUE OR FALSE:

- F 1. LINE NUMBERS MUST ALWAYS BE INCREMENTED BY 10'S.
- T 3. DEBUGGING IS DONE WHEN A PROGRAM HAS A SYNTAX ERROR.
- <u>T</u> 5. HIGH SPEED WITH GREAT ACCURACY.
- THE COMMAND TO TRANSFER A COPY OF YOUR PROGRAM FROM DISK <u>T</u>_6. TO THE COMPUTER'S MEMORY IS KNOWN AS LOAD.
- _F 7. ALL COMMANDS ARE THE SAME FOR ANY COMPUTER.

G5. D10. T10 TC

A SHIFT/CLR-HOME

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R PROGRAM

C. LIST

ח NEW

E CURSOR

F. REM

G RETURN

н MONITOR

T SAVE

J. PRINT

K. RITN

T. BASIC

- T 2. WHEN THE COMPUTER IS TURNED OFF, YOUR PROGRAM IS LOST.
- _**F__4**. IF YOU CLEAR THE SCREEN, YOUR PROGRAM WILL BE CLEARED FROM THE COMPUTER'S MEMORY.
- A COMPUTER IS A MACHINE THAT PERFORMS TASKS AT A

COMP	UTER	DAY 1 LITERA	CY			NAME	197
		DAY 10 COPY		E 2		SECTION	
rato T (f)	TNC A	PROGR	AM.				
***				TO DIC	SPLAY YOUR FU	III MAME AND	
Α.					IE SCREEN.	DOD HAME MAD	
٠	10	REM		MAM	E AND ADDRES	SS PROGRAM	
	20	PRINT		(SHIFT/	CLR-HOME>"	-	
	30	PRINT	<fii< td=""><td>RST AND</td><td>LAST NAME></td><td></td><td></td></fii<>	RST AND	LAST NAME>		
	4 0	PRINT	" <sti< td=""><td>REET AD</td><td>DDRESS>"</td><td></td><td>·</td></sti<>	REET AD	DDRESS>"		·
	50	PRINT	" <ci< td=""><td>ry, sta</td><td>ATE ZIPCOI</td><td>DE>"</td><td></td></ci<>	ry, sta	ATE ZIPCOI	DE>"	
	60	END		-			
B. C.	COMM		AT WII			THIS PROGRAM: RUN BRAM IN MEMORY ON THE	
D.	COMM	AND TH	AT IS	MISSIN	G FROM THIS	STATEMENT:	
	30	P0	KE	53280,	14		
E.	LINE	30 AN UCE <u>ON</u>	D 40 A LY THE	ARE MIS	SSING. WRITE WING:	E A LINE OF PROGRAMMING T	HAT WILL
	A COL	OR BAR	FOUR	SPACES	OF BLACK AN	ND FOUR SPACES OF YELLOW	_
	10	REM	TEST I	PROGRAM	Í		
	20	REM	QUEST	ON IS	WORTH 2 POIN	NTS	
	30	PRINT	"	SHIFT/	CLR-HOME>	 -	
	40 _	PRINT	" <c9></c9>	(C1><4	SP> <c8><4 SI</c8>	P> <c0>"</c0>	
	50	END					

G5.D10.T10.TC

CRITIQUE OF OLD CURRICULUM FOR FOURTH GRADE

The old curriculum for Fourth Grade was written with the intention to introduce some of the terms and to have the students master some of the skills used in basic computer programming. This included various activities from learning the names of the different parts of a computer system to using the computer to enter simple graphics programs. The old curriculum for the Fourth Grade was a five day program which consisted of a one page chart which had a row for each day's lesson and columns for: (a) terms for which the definitions were to be taught; (b) commands used in programming a computer which the students were to learn: and (c) activities which the students would perform. This chart was included with the curriculum to give some direction as to the order of the material to be covered. The student handouts which accompanied the chart consisted of nine pages. The handouts were set up for the students to either fill in the blanks or enter programming while reading along with the teacher.

There were no explicit written instruction as to how to share time on the computer operating with two students per computer. In the previous years of

teaching, the former instructor had each student entering his/her own work; this meant that after the first student entered a specific program, the teacher had to go to that computer, approve the work, clear the memory and then have the second student enter the same program. This created a volatile situation with disciplining the students while they were not involved in the activities, and this really slowed the progress of the curriculum.

The first day began with an introduction of the keyboard of the computer. The first handout was a blank version of the keyboard with the instructions, "Color in the 5 rows on keyboard." This instruction was misguiding, as it was not intended that the students "color" them. It would have been clearer if the instructions had been, "Write in the correct characters and symbols for each key from the keyboard."

The second page for day one was a handout to guide the students in learning the meanings of the terms computer, cursor and monitor. The definitions for computer and monitor were never given in the handout, and the definition of cursor was not clearly stated. The students were expected to know these terms so they should have been clearly identified by underlining the

terms the students would be responsible to know on a test and should have been clearly defined.

The second half of this page contained an activity to learn the command "CLR/HOME." The students used the handout by reading along with the teacher and typing certain words in on the keyboard. The activity was appropriate but needed clearer instructions and guidance. Also there was some art work on this page, a graphic showing a television being cleaned with an eraser by a walking house with the codes "CTRL" and "CLR" written across the roof. This art work was not consistent with the text; the command being taught used the keys labeled "SHIFT" and "CLR/HOME." There is a key with the code "CTRL" on it, but it was not the key being discussed in this handout.

The last activity for the first day had the students entering some lines of text and turning the computer on and off before and after each line. While the goal was only to demonstrate how to turn the computer on and off (the lines of text entered were irrelevant), this causes unnecessary stress to the computer and is a practice that should be avoided.

Day two started with the definitions of: computer commands, program, line number; and the reserved words:

new, return, print, and run stated at the beginning of the first of two handouts. There were some definitions and instructions to read and a line of programming to The statement was very simple and there could have been a better example. Again, some additional art work was incorporated at the bottom of the page. second page for this day, continued with more lines of programming mixed in with a few more definitions and art work. There were two concepts the students had to master. First, that in order to enter a line of programming the return key has to be pressed after each statement. This was demonstrated by entering a statement that would print the word "HI." The second concept was demonstrated by entering the words "GIVE ME CANDY." The intention of entering this statement was to show that if not done properly, an error message of "?syntax error" would be printed on the screen. two ended with entering a couple of programs. programs resulted in output of cute phrases that really did not relate to the task at hand. It would have made the programs more relevant if it had emphasized the important differences between a statement and a program.

The third and fourth days' handouts consisted of a

total of three pages of programs with four definitions which were written at the beginning of the day three handout. In completing these handouts, students had nine programs to enter. There was very little instruction given to the students with these programs. Day three began with the definitions of each of the basic parts of a computer, basic language, list and The main concept being emphasized in the handout this day was that, in programming, the order in which you enter the lines of programming is not critical because the computer will read the lines in the sequence of the line numbers assigned and entered with the program. The first program had the students entering nine statements nonsequentially that according to assigned line numbers would spell the word "SPAGHETTI" when listed or executed. The second program dealt with the same concept and when executed, produced the phrase "MARY HAD A LITTLE LAMB." If the students finished early, the handout for day four could be given since it had seven programs, more than enough programs for both day three and day four. The programs for days three and four had a variety of rhymes and entertaining messages as output but did not help keep the students aware of the computer skills that were

supposed to be emphasized by the handout.

There were two pages of extra material related to math and how the computer could be useful in doing calculations. This extra material dealt with teaching the difference between entering a mathematical equation with and without quotation marks, as well as the use of the semi-colon to have the computer give more than one response per line of programming. These two pages were completely inappropriate for Fourth Grade students at the level of mastery indicated by the other handouts; the students were just beginning to comprehend basic programming.

For the fifth and final day there was a test; three versions were provided, none of which were very well made. The first form used matching columns and fill in the blank activities, while the second and third forms used a question and short answer structure along with fill in the blank activities. Additionally, all three tests required the students to write two short programs as the final portion of the test. The definitions used in the tests were not identical to the definitions presented in the handouts. There were very limited instructions on the test itself, and with the lack of lesson plans for the teacher, there was no

guidance as to what was to be considered a passing score.

Generally, the old curriculum for Fourth Grade was very vague as to how it was to be used. The student handouts did not have any consistent titles or page numbers to indicate the intended order of completion. There were no suggestions as to how to score or grade the students' work either in the classroom activities or on the test. There were no written objectives included in the curriculum. With a majority of the materials on which the students worked being graded subjectively, the evaluating was made much more difficult.

The major problems with the format of this old curriculum were the lack of instructions for the teacher and the students to read before entering information into the computer, the need for guidance as to what the entering of a program was supposed to be teaching the student, and how the student would know if the output of the program was correct. There was also no provision on the handouts reminding the student to have the teacher check the work before continuing. All of these factors made the old curriculum very difficult for the teacher as well as the students.

RATIONALE OF NEW CURRICULUM FOR FOURTH GRADE

The new curriculum for Fourth Grade contains all the materials needed by the teacher and the students for the ten day course teaching beginning programming in Basic on a Commodore Computer.

One of the main improvements that this curriculum has is the medium on which the written material is stored. The entire curriculum is stored on data disks for AppleWorks, since most school districts use Apple Computers. This gives the district a clear and defined curriculum that is stored on a medium that is easy to access and reproduce and can accept modification to keep the curriculum up to date.

The new curriculum for the Fourth Grade is intended to be taught in ten days. The district decided to increase this from five days to give the same amount of time to both the Fourth and Fifth Grade levels. The Fourth Grade curriculum begins by listing the ten daily objectives. The next two pages give a chart showing the terms, reserved words or commands and activities the students will be covering on each day of the course. These pages are for the teacher's benefit and to aid in any review done by a curriculum

committee.

The materials for each of the ten days begins with a lesson plan, two pages in length, which is divided into seven sections. The first section is the restatement of the objective for that day. It is important to read this objective to the students each day so they become involved in accomplishing the objective. The objective section is followed by the introduction section. This section contains the information to begin the day's activities and is intended to assure that each day begins, except for the first day, with a review of the material from the day before. On the first day, this section lays out the ground rules for the teacher to convey to the students.

The section of the lesson plan which follows the introduction is the presentation section. This includes the information needed to explain the lesson for the day to the students. This third section is intended to give clear directions on how to work with the class through the handout(s) and worksheet(s) for the day. This section is supported by another addition to the curriculum found on a teacher's copy of the students' worksheet. The teacher's copy has all the information found on the student's copy with a few

additional comments. The teacher can use this copy like a script to direct the work of the students.

The fourth section, the summary, recaps the important points of the day's lesson and is intended to be covered with the students at the end of each class.

The next two sections, student involvement and student evaluation, clearly state what is expected from the students and how the students will be graded.

These sections were an important improvement in the lesson plan in the evaluation of the students' progress. The old curriculum did not have material that would help the teacher evaluate the students' progress. It is important to inform the students that the materials completed in class earn given point values when completed properly, as do quizzes and tests. It is the total number of points earned that determines each student's grade. When the students are advised of the evaluation system, they know what they must do to improve their grades and can take responsibility accordingly.

The final part of the teacher's lesson plan is the additional topic section. This gives enrichment suggestions for students who finish the planned activities early.

Each of the ten daily lesson plans is followed by the student's and teacher's versions of all quizzes, handouts, worksheets or tests that will be used that day. There are three handouts, sixteen worksheets, four quizzes and two tests included in the curriculum. All of the materials given to the students have information in the upper left hand corner identifying the purpose of the sheet. There is a place in the upper right hand corner for the students to write their names and class sections. For the teacher's purposes, all pages are clearly marked with special coded numbers in the lower left-hand corner so they can be found easily on the data disk on which the curriculum is stored for copying purposes or for making improvements.

The three handouts are a blank keyboard, a list of the color bar codes, and a list of the poke color codes. Handouts generally contain informational charts while worksheets contain instructional activities. The student's version of a worksheet always begins with a list of the definitions that will be covered that day, followed by step-by-step instructions and clear explanations of what the day's tasks are. It's important to note that the teacher's version of the worksheets contains the same information with

additional instructions that clarify the students' tasks for the day.

The work done on the worksheet receives a point value that is used by the teacher to evaluate the students. The four quizzes are given on the second, third, fourth and seventh days of class. On the preceding days the students are made aware that at the next class meeting they will be taking a quiz. There are two tests in the curriculum, one given on day five and the other on day ten. These worksheets, quizzes and tests give the teacher an objective means of evaluating the students.

In addition to creating a more effective format for the curriculum, the content of the curriculum was altered to stress consistency in definitions and in building concepts on previously covered concepts and to incorporate an explanation for the students of what the goal of each activity was so that they would be able to anticipate a correct result.

The first day of the ten day course begins by the teacher giving a brief outline of the expectations of the course and how the students will be evaluated.

This is followed by spending some time becoming familiar with the keyboard by filling in a handout that

contains a blank copy of the keyboard with the proper characters or functions of all the keys. The definitions for day one are listed at the beginning of the first worksheet which the students receive as soon as they have completed the keyboard handout. All of the definitions are read, and the students are reminded about the quiz to be given the next time they meet. The worksheet directs the students to type phrases on the computer to get accustomed to using two hands on the keyboard and feeling for the keys instead of looking at them. Also, the students are taught the use of the "clr/home" key with and without the shift key.

The second day begins with a quiz reviewing the seven definitions learned on day one. The students are given a worksheet which has another seven definitions that the students are expected to know for the quiz the next day. On the second day the students begin work on actual lines of programming. The objective of the programming activity is to teach the students two concepts of line by line programming. The first concept is understanding what the error message "?syntax error" means. The second concept is understanding the difference between a single line of programming, called a statement, and two or more lines

of programming, known as a program.

Another important change in the new curriculum is that the students, still in pairs, take turns entering statements into their assigned computer, while their partners are directed to proofread the statements.

With two students to a computer, it is important to balance the amount of time each student spends working at the keyboard and to keep both actively participating in the activity.

Day three has a quiz to start the lesson. This is followed by seven new terms/commands on the worksheet. Now that the students have had an opportunity to enter some short programs, they are given a program that is determined by the school they attend. The program when executed will show the name of their school, but the lines of the program are scrambled. By using a word that is familiar to all the students, it helps in motivating the students to accomplish the task of getting the program to come out correctly.

The fourth day is opened with a quiz covering the seven terms/commands learned the day before. Today the students are still working in pairs on the computer, but for the first time each of them has a complete program to enter into the computer. While one student

is entering his/her program, the partner should be writing out the output of the program on the worksheets.

The fifth and half-way point of the curriculum is a day set aside for testing. It is important to review the material that the students are going to be quizzed or tested on before giving the quiz or test.

There is no quiz on day six because the degree of difficulty in the material being introduced requires the entire class period. The students begin to work with the color codes that will be used to create graphics programs. (One of the major errors made in the old curriculum was teaching the students an incorrect way of making a color bar on the screen that did not involve programming.) With this new lesson it is important to stress the way being presented in this lesson is the correct way to create colors in any program or work.

The seventh day begins with a quiz reviewing the color bar commands learned the day before. After the quiz the students begin to enter some sample, full-screen graphics programs by carefully taking turns typing in, one line at a time, the program statements given to them by the teacher. The students should check

their work after entering each statement. The students work on this type of material for days seven through nine. The tenth and final day of the course the students have a test reviewing again all the material covered during the course.

CRITIQUE OF OLD CURRICULUM FOR FIFTH GRADE

The old curriculum for Fifth Grade was a ten day program which consisted of a pre-test given on the first day followed by nine lesson plans, twenty-one handouts, two graphics programs, one blank text screen and a test.

The pre-test was comprised of ten matching columns problems, five true or false statements, one question for which the students had to write a program and a couple of one word answer questions related to programming. The intent of the pre-test was to review the commands and terms covered in the old curriculum for Fourth Grade. However, more than seventy-five percent of the pre-test used different words or phrases to describe concepts and define terms than had been taught in the old curriculum for Fourth Grade, making it difficult for the students recognize the material. It was also not the appropriate material to give to students on the first day due to the long interval of time between the two courses and the short duration of the earlier course. The first day could have been better spent reviewing the material with a review worksheet rather than creating a situation in which

failure was the more likely outcome.

The lesson plans, titled Computer Literacy. consisted of two sections. The first section of the lesson plans listed the definitions of the commands and terms to be taught during that day's lesson. The goal of the first section of the lesson plans was to introduce the new terms and commands to the students. Having the definitions in the lesson plans was ineffective as the students were not given the same written information in the handouts on the same day. The second section was titled "Procedures" and gave a description of the day's activities. If the intent of the second section of the lesson plans was to give the teacher a series of instructions to help guide the students through the activities for that day, these procedures did not accomplish this. The procedures included a list of what was to be handed out and collected, but lacked any details as to what the daily objectives were or any clearly defined steps that the teacher and the students were to be following.

The student handouts, at least one was to be given each day, contained the programs that the students were to enter into the computer. Most of the handouts began with a teacher-performed program, in which the teacher

entered a program at one of the computers while the students watched over the teacher's shoulder. This was not an effective activity as the students were generally not attentive and would generally prefer to be at the computer themselves.

The activity sheets, available on certain days, were used as extra credit material. Most of the programs used on these pages lacked explanations of what programming skills were being emphasized. There was also a limited amount of instructions other than, "Enter the following program." It was very rare for any student to have the opportunity to work any of the extra credit handouts because having two students at a computer, each having to enter the program independently, did not leave enough time for extra work. Most of these activities did not relate to the remainder of the curriculum; the time spent on these activities sheets would have been better spent with materials related to the final graphics project.

The student handout for day one had three programs for the students to enter in the computer. The purpose of the programs was to review the skills learned in Fourth Grade. The teacher's lesson plans contained the definitions for six terms/commands; however, while the

programs used some of these terms/commands, nowhere were there any instructions telling the teacher to write, say or use these terms/commands with the students. The programs used for day one were to emphasize that the order in which the lines are entered does not matter because the computer will rearrange them. The programs contained inappropriate phrases that distracted the students from the task at hand. The instructions given with the three programs did not instruct the students to check with the teacher to approve their progress after each program or step, making the material less effective.

The programs on day two were to teach the use of the color bar codes and the reserved word "GOTO." The lesson plan contained the definitions for loop and "GOTO," but the students were not given the definitions in writing. The procedures only contained the instructions to do the teacher-performed activities and have the students complete the handouts. One of the handouts was a listing of the color bar codes. The quality of the printing of this handout made it very difficult for the students to read it. Considering this was the first experience working with color codes, it would be important to give the students good quality

handouts. The last handout given to the students began with a teacher-performed activity. The goal of this program was for the students to be able to comprehend the use of color code commands. This teacher-performed activity was followed by two programs for the student to enter in the computer using the color bar codes and the "GOTO" command. A third program only used the "GOTO" command and again contained statements that did not relate to the topic of computer programming. An activities handout for day two was available for students who finished their work early. This extra credit work contained three more programs. The first two programs helped reinforce the skills employed in using the color code commands, while the third program did not have any value relative to the material for the day.

The day three through day seven lesson plans and student handouts followed the same pattern. The lesson plan would list the new terms for the day and the procedures for the teacher. If two handouts with programs were available on a given day the students were expected to complete the first one while the second handout was used as extra credit for those students who finished the other handout early.

The lesson plan for day three contained the definition for the "LET" command and the procedures for the teacher to follow. The programs on the handout began with a program for the teacher to do as a demonstration followed by three programs for the students to work on. The extra credit activities handout contained two activities to have the students create programs to meet specific requirements which were not appropriate for their level.

The fourth day's lesson plan contained the definitions for the "FOR-NEXT" and the "REM" commands. The handout consisted of two teacher-performed activities followed by two activities for the students to perform. The programs the students were to enter used the "FOR-NEXT" command, but the only program that used the "REM" command was one of the teacher-performed programs. The extra credit activities handout contained three challenging problems to write some programs. The level of these programs was well above the activities performed by the entire class and above the abilities of most of the students.

Day five did not have any new terms/commands. The procedure section only contained one step which said,

"1. Handout student activities. Help as needed."

This was not enough information for the teacher to present the lesson for the day. The student handout for day five had two programs for the students to write or enter into the computer after the teacher demonstrated by entering a program as an example of what the students would be doing. The intent of the programs was to review and reinforce the many uses of the "FOR-NEXT" command. The extra credit activity handout had two programs for the students to enter into the computer. It would appear that these programs just reinforced typing skills because there was no explanation included with the programs as to any other purpose.

On the sixth day the students were given a four page handout to read as homework. The material in these four pages explained the use of the tape unit known as datassette and was discussed on day seven. The new commands given in the lesson plan for day six were "IF-THEN" and "INPUT." The student handout contained the teacher-performed program, followed by two programs for the students to enter. The extra credit activity sheet also contained two programs.

Again, these programs apparently just reinforced typing skills because there was no explanation included with

the programs as to their purpose.

On day seven a summary sheet containing the definitions of the terms and commands from day one through day seven was included in a handout. As helpful as this comprehensive handout of definitions was, the students should have been given the definitions in writing on the day they were introduced. On day seven the routine was broken with the discussion of the handouts that had been given on day six for the students to read as homework. The material covered the use of the "LOAD" and "SAVE" commands when operating a datassette unit. The student handout for day seven contained a teacher-performed activity. This was followed by some programs to be entered by the students and saved on tape. But these programs did not contain any instructions as to when to use these new commands.

The eighth and ninth day handouts were different from those of earlier days. The students were given a text screen page on which they were to create a picture of some object by coloring the individual squares of a text screen. The text screen was a reproduction of the screen of the monitor showing each of the forty spaces on twenty-four lines. On day eight a graphic sheet of the head of a clown with no face was used as a

teacher-performed activity to show the students what was expected in their own graphics program. Also for day eight there was a graphics program that would create a picture of a dog for day eight to enter into the computer before the students began working on their own graphics programs. These would have been very good practice programs and helped the students understand the use of the color codes but should have been introduced to the students earlier. The final graphics assignment also should have been introduced earlier than day eight or nine. The students had part of the eighth class period and all of the ninth class period to enter their own personal graphics program.

The last day was spent taking a test. The final test contained ten matching column problems followed by three programs which the students were to write. The complexity of the programs which the students were expected to write using "FOR-NEXT," "IF-THEN" and "INPUT" statements was beyond the level of the students' knowledge, considering the amount of time spent using those terms in class.

The Fifth Grade curriculum was lacking in many respects. The "Procedures" portion of the teacher's lesson plan didn't give the teacher much guidance. The

student handouts did have some form of a title, such as a heading in the left-hand corner, but there wasn't a place to have the students write their names and there weren't page numbers to indicate the order of completion. There were a lot of rhymes and phrases used in all the programs and even though they were entertaining they detracted from or did not add meaning to the activities.

Two other factors that made the curriculum difficult, not only for the students but also for the teacher, were the lack of some written explanation of what the student was to be learning with each program and the lack of some written explanation as to how the student would be evaluated. The inadequate lesson plans, handouts with little or no instructions and programs containing distracting and non-relating phrases and a final graphics assignment not given to the students early enough for them to complete, clearly suggests the need for a new curriculum with some depth.

RATIONALE OF NEW CURRICULUM FOR FIFTH GRADE

The new curriculum for Fifth Grade is a continuation of the new Fourth Grade curriculum. The Fifth Grade curriculum begins with the statement of the ten daily objectives for this curriculum. Again, this is followed by a two page chart outlining terms, reserved words or commands and activities that the students are to cover each day in the Fifth Grade curriculum.

Each of the ten days begins with a teacher's lesson plan which is divided into seven parts. The lesson plans for the new curriculum for Fifth Grade are made from the same template as the lesson plans used in the new curriculum for Fourth Grade. The first part is the restating of the objective for that day, followed by the introduction, the presentation, the summary, the student involvement, the student evaluation and the additional topic. Each of the ten daily lesson plans is again followed by a student's and teacher's version of each of the quizzes, handouts and worksheets that will be used for that day. There are a total of twenty-one worksheets, five handouts, six quizzes, two tests and sixteen graphics.

One of the major changes from the old to the new curriculum is the elimination of the wasted time of having both students on one computer entering a program. Instead, the students should follow the instructions and take turns each entering a line at a time into the computer as the teacher requests. This allows each student an equal amount of opportunity in improving his/her skills of using the keyboard. While one student is entering information into the computer, the partner would be proof-reading the results on the screen for errors.

The first day of the course is spent reviewing the terms and commands learned in Fourth Grade. The first day's activities consist of completing a fill in the blank worksheet. The worksheet contains a total of twenty terms and/or commands. The students fill in the blanks with the definitions from a transparency as the teacher reviews each one. At the end of the period the students turn in this page for grading and are given a copy of the teacher's version to study for a quiz to be given the next day.

Continuing on the first day, the students receive a blank text screen handout that will be used to complete their final graphics assignment. The students

are given five days to fill in a picture on an entire text screen using any kind of colored pens/pencils. The text screen is a graph of what can be seen on the monitor. The picture is limited to 39 spaces across the screen and 21 lines down the screen. The reason for the limitations is that the picture will begin to scroll if made larger. The picture can be of any object or design accepted by the teacher. One of the most significant changes in the order of the Fifth Grade curriculum is this explanation of the major graphics assignment on day one instead of day eight or nine. By assigning this portion on day one with a due date of day five, it helped to improve the percentage of students having accomplished the assignment.

The second day begins with a quiz on the material reviewed during day one. This is followed by a two page worksheet allowing the students to refresh their skills in writing, entering and executing a program. The second page for this day reviews the use of the color codes and how to enter them in a program. The students are given a new color code sheet which contains all the colors available on the Commodore Computer.

Day three follows the pattern set on day two in

that a quiz is given to review the material covered on the previous day. This is followed by a two page worksheet. The first page has the student being guided by the teacher and by the information given on the worksheet to write a more complex program with some new reserved words. The program is eight lines in length. The second page has a similar program, sixteen lines in length, but the worksheet provides no lines of programming to assist the students. By following the five steps outlined on the worksheet, the program is written using the skills learned on the first page, although different phrases are needed. This worksheet serves as a good preparation for the writing of the final graphics program that the students will be starting in two days.

The quiz for day four is the same quiz used on day three. This is done as the material covered on day three is very similar to that covered on day two. It also allows the students who had difficulty with the quiz the day before to regain some ground since each quiz is reviewed immediately after being given. The worksheet for day four is divided into two pages. The first page is designed to be done as homework and returned at the next class meeting. The second page

has three programs which cover the use of the "for-next" command.

In order for the teacher to know whether students are grasping the material, a more challenging quiz is given on day five. This is intended to help identify problems, the material which students are not grasping. After the quiz the handouts needed to write their graphics programs are given with all the instructions as to when the assignment will be checked and when it will finally be due. After the assignment is reviewed, the students complete the two-page worksheet for day five which has four definitions on which the students have to fill in the blanks with the terms being defined. There are four separate programs for the students to work on in pairs taking turns entering statements into the computer. The teacher checks their progress after each program, while also checking for the completion of the final graphics program text screen assigned on day one.

The quiz for day six is a repeat of the previous day's to reemphasize the importance of the students' being able to write a program from scratch or from memory. To allow for more class time to work on the graphics programs, the seventh day's quiz is given in a

take-home format. The handouts for day six include a listing of the proper color codes for the "poke" command and a guide on how to use the disk drive. The worksheet for day six is a graphics program that prints the word "HI" which is the same graphics program used in the new curriculum for Fourth Grade but, in Fifth Grade the students must enter the program using only the graphics. The theory in reusing the same graphics from the Fourth Grade curriculum is that the program will be familiar to them and it will challenge them. The program looks difficult, but on close examination and by taking advantage of copying lines of programming, eleven lines of programming are all that are needed to do this program which consists of twenty lines.

Days seven through nine are spent working on the graphics programs used in the Fourth Grade Curriculum. The graphics program for day seven is the clown without a face. The students enter the program provided and then edit the program to add the face to the clown. This program gives the students the experience of having to edit a program. Throughout the days that the students work on graphics programs, it is always stressed to enter one line of programming at a time and

then to execute each line to make sure the line of programming creates the correct addition to the picture. For the school year 1987-1988, because this class had not gone through the new curriculum for Fourth Grade, the Fifth Graders were given the program to enter into the computer, but in future years it is intended that the students be given the text screen only, having to enter the program using the knowledge and skills they have been learning during the course. One alternative to having some students frustrated, would be to have the program available but to give only half of the points to those using the program that could be earned by those creating the program from the text screen.

The dog is the graphics program for day eight, and the name of the school the students attend is the final graphics program done as classwork. Each day, from day six through day nine, the teacher should be checking the progress of each student on his/her final graphics program to make sure each is completing the assignment following the correct technique, and when students have all their current day's classwork done they may be offered time to begin entering this program into the computer.

The test on the final day of the course is the last chance for the students to demonstrate that the curriculum is working correctly and to earn some points to improve their grades.

In summarizing, for both the Fourth and Fifth Grades, improvements in these new curricula come from the consistency in the use of the defined terms and from the explanations of concepts using the same words in the worksheets, handouts, quizzes and tests given to the students. The repetition, although it creates a certain amount of redundancy, allows the students to succeed and achieve the goals of the curricula. sharing the work of entering programming statements between two students at each computer, the class time is used more effectively allowing the students more time to enter more examples. The development of a grading system encourages the students to take a position of responsibility relative to the determination of their grades. Finally, all of the elements are supported by the teacher's lesson plans which provide a unified and efficient vehicle for the accomplishment of both the students' and teacher's objectives.

EVALUATION BASED ON STUDENTS' SCORES

The old curriculum for Fourth Grade did not contain sufficient material to objectively evaluate the students' abilities or achievements. The prior teacher had used a subjective grading process in evaluating the handouts, and no written or verbal recommendation was given with the curriculum. With no guidelines given with the old curriculum, in order to evaluate the students' progress a point value had to be assigned to the work and test given. The handouts for days one through three were given a point value of three each while day four was given four points; relative values were based on the number of programs. The majority of the students did well at following the instructions given by the teacher, reading the handouts along with the teacher and entering the proper information into the computer, but the comprehension of the material was not adequately evaluated.

The assigned scores reflected that the students had no difficulty the first two days but the third and fourth days had a few students receiving lower scores because of not completing the handouts and not entering all the assigned programs into the computer. The main

reason this occurred was due to the slow process of having each student enter every program. With two students at each computer and a total of nine programs that each student had to enter in the last two class periods, completing the handouts was a difficult task to accomplish.

The final evaluation of the old curriculum for

Fourth Grade was in the results of the test the

students took on the fifth day. The test was assigned
a point value of twenty-five. Most the students did

well in the matching columns section but did not do

well in the sections requiring the students either to

write the output of a program given the program and a

program given the output, or to write a program from

scratch. The students may have been introduced to

computer programming and to entering programs for four

days, but mastering of the skills related to writing a

program from scratch were not emphasized enough.

Looking at the assigned scores, 42% of the students received scores of less than seventeen points (or 68%) which was the number of points the students would have earned if they had correctly answered all but the writing of a program from scratch. With only 33% of the students able to scoring twenty (or 80%) or

more points, this clearly indicated the need to revise the curriculum to improve the material related to learning the skills of programming, to test at a more appropriate level of mastery and to include more methods of evaluating the students' daily achievements.

The new curriculum for Fourth Grade adds the materials necessary to evaluate the students subjectively. This is done with the addition of four quizzes and an additional test. The new curriculum is expanded from five days to ten days to give the Fourth Grade students an opportunity to spend more time with the computers and to develop increased computer literacy.

Each of the worksheets is worth five points in the new curriculum for Fourth Grade, but these points can be considered more subjectively than objectively earned because of the clearly defined evaluation section in the lesson plan. Most of the students did quite well in completing the required worksheets.

All the quizzes showed scores averaging above 50% correct. The first quiz had 58% of the students getting perfect scores. The scores were lower for the second and third quizzes; this would indicate the need to make sure that the material is being covered and

emphasized clearly.

The fifth day has a test for the students The test scores are much better when compared to the test scores of the test of the old curriculum. The test is worth thirty points. The first half is made up of twelve definitions that the students have to match with the correct terms or reserved words, followed by six true or false statements. This portion of the test is worth eighteen points. This time only 12% of the students had scores of less than seventeen points (or 57%) and 60% of the student were able to score twenty-four (or 80%) or more points. The new curriculum for Fourth Grade is able to accomplish this by having consistency between the test and material covered and better use of time spent with activities in handouts that gives the students material more appropriate for the students' level.

The old curriculum for Fifth Grade started with a pre-test covering the material taught in the old curriculum for Fourth Grade. The pre-test was worth twenty points and found many students not remembering the material from the year before. The last time the students had worked with the material being tested would have been three or more months earlier which

explains the low scores. The highest score was seventeen, the lowest was two, and 56% of the students received a score of less than eleven points (or 55%). It might improve interest and motivation to give the pre-test on the second day after spending the first day reviewing the material from the Fourth Grade curriculum.

The handouts for day two through day eight were assigned point values ranging from one to four; relative values were based on the number of programs. Most of the students had great difficulty completing the daily assignments. Only one student was able to get perfect scores on all eight daily handouts. Again, just as in the old curriculum for Fourth Grade, the old curriculum for Fifth Grade required too much time having both students enter the same program in order to receive credit for the work.

The major assignment in the old curriculum for Fifth Grade was a graphics program that would create a picture drawn by the students on a graphics text screen. The students received this assignment on day eight which did not give the students sufficient time to accomplish the assignment. Only 7% of the students were able to complete the assignment properly. Another

33% were able to partially complete the assignment.

The negative side shows 60% of the student not turning in the assignment.

The final score for this curriculum was the final test. The test was worth twenty-five points. Only one student received a score above twenty (or 80%). 42% of the students scored between ten and sixteen points (or 40 to 64%). Some 58% of the students scored less than ten points (or 40%).

The new Fifth Grade curriculum starts with a review day of the new curriculum for Fourth Grade, instead of a pre-test. This review worksheet was worth twenty points. The results of spending the time reviewing proved to be worthwhile. The quiz at the beginning of day two had 77% of the students earning ten or more points out of twenty points. This might seem a little on the low side but may be explained by the fact that these students had the old curriculum for Fourth Grade so much of this material was new to them.

The remaining daily worksheets for day two through day five are each worth ten points. The students do quite well achieving an average mean of 9.52 points per worksheet. The quiz given at the beginning of day three resulted in somewhat low scores, with most of the

students earning less than five points out of ten. However, when the same quiz reappears as the quiz at the beginning of day four the students' scores improve with most of the students earning ten points out of ten. Similar results occur for the quiz given on the fifth and sixth days. Out of a possible ten points, the students had a mean of 5.6 increase to 7.0, respectively. The scores for the quiz on day seven dropped a little. This quiz was only given once and it was handed to the students on day six as a take-home quiz. Many of the students failed to remember to complete the quiz and therefore only received points for the completed portion.

The worksheets on days six, seven, eight and nine were the four sample graphics programs. For these four days the students had an average mean of 9.00 points.

The scores for the picture and the program relate to the assignment given to the students on the first day. The students received full credit if the picture was completed properly by the fifth class period, otherwise they were given partial credit for the portion of the work that was correct. By the last day of the class the students could either turn in a written copy of their program with the picture or, if

time were available, enter and execute the written version of their program into the computer to properly create their picture. This is a great improvement over the results in the old curriculum. Over 50% of the students turned in the program. Two students even did an additional picture and program which earned them extra credit.

The last score of the new Fifth Grade curriculum was the test given on day ten. The test was worth thirty points. This time over 42% of the students scored more than twenty-four points (or 80%), 49% of the students scored between twelve and twenty-three points (or 40 to 77%) and only 9% of the students scored less than twelve points (or 40%).

The new Fourth and Fifth Grade curricula have greatly improved by supplying the teacher with detailed lesson plans, teacher's version of the student's worksheet, quizzes that give an objective based value to the grading, and the tests to evaluate the total effectiveness of the curricula in teaching the knowledge and skills to the students. Equally important is that these curricula have presented the material to the students in worksheets, activities ad methods that motivate, expand their knowledge and

skills, and challenge their creativity, and afford an opportunity to exercise responsibility and to succeed.

SCORES OF OLD FOURTH GRADE CURRICULUM

ASSIGNMENT POINTS	D <u>1</u>	D2 3	D3	D4 4	TEST 25
STUDENT #1 STUDENT #35 STUDENT #5 STUDENT #5 STUDENT #5 STUDENT #6 STUDENT #6 STUDENT #7 STUDENT #7 STUDENT #1 STUDENT #1 STUDENT #1 STUDENT #12 STUDENT #12 STUDENT #15 STUDENT #15 STUDENT #15 STUDENT #15 STUDENT #25 STUDENT #25 STUDENT #25 STUDENT #27 STUDENT #27 STUDENT #28 STUDENT #33 STUDENT #35	 	=	= 333333333-22223-3-1-1-33333333333333333	#4444444444444444444444444444444444444	= 2122222111111216485062070781820551899441816667261=T
POINTS DAILY MEAN DAILY RANGE DAILY MODE	2.9 3 3	2.7 3 3	2.6	3.5 4 4	TEST 25 17.0 19

SCORES OF NEW FOURTH GRADE CURRICULUM

				-				
ASSIGNMENT POINTS	D1 5	RD1 7	D2 5 ====	RD2	D3 5 ====	RD3	D4 5	TEST 30
STUDENT #3 STUDENT #4 STUDENT #5 STUDENT #5 STUDENT #6 STUDENT #6 STUDENT #7 STUDENT #7 STUDENT #7 STUDENT #11 STUDENT #12 STUDENT #22 STUDENT #23 STUDENT #23 STUDENT #23 STUDENT #23 STUDENT #23 STUDENT #334 STUDENT #334 STUDENT #334 STUDENT #334 STUDENT #337 S		- - - - - - - - - - - - - - - - - - -	๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛๛	 5274245353477471344554154331134037345532272 8	 55555555555555555555555555555555555	- 7545467774443534642674545442516323263505440=3 = D	មាននេះគឺ នេះ នេះ នេះ នេះ នេះ នេះ នេះ នេះ នេះ នេះ	T0=768235477790987744996094944183166593603520000=T0=531222222222222222222222222222222222222
POINTS DAILY MEAN DAILY RANGE DAILY MODE	D1 5 4.9 5	RD1 7 5.7 7	D2 5.0 5.0 5.0	RD2 7 3.8 7 4	4.9 5.5	RD3 7 4.2 7 4	D4 5.0 5.0	TEST 30 23.1 28 24

SCORES OF OLD FIFTH GRADE CURRICULUM

ASSIGNMENT POINTS	RD1 20	D1 3	D2 4	D3 3	D4 4	D5 2	D6 3	D7 4	D8 1	PIC 14	PR06 25	TEST 25
STUDENT #3 STUDENT #4 STUDENT #5 STUDENT #5 STUDENT #6 STUDENT #7 STUDENT #7 STUDENT #10 STUDENT #10 STUDENT #12 STUDENT #14 STUDENT #15 STUDENT #15 STUDENT #15 STUDENT #15 STUDENT #16 STUDENT #17 STUDENT #17 STUDENT #17 STUDENT #17 STUDENT #17 STUDENT #17 STUDENT #27 STUDENT #37 STUDENT #38 STUDENT #38 STUDENT #40 STUDENT #42 STUDENT #43	154174314699151716117292461798566559302787278	======================================	= 1111111112114244443212340101211121024213444 = 2	223253232323222235522222222355552525232325325	3332223233222223423422222234233224233224	110112110111011121111100010101101110111		224244222222222243443-1224023242221222122		14 147 147 14000000000000000000000000000	25 133 110 100 200 200 200 200 200 200 200 200	### 858873601763408316244463076833337111908593710 ####################################
POINTS DAILY MEAN DAILY RANGE DAILY MODE	RD1 20 9.5 15	D1 3 2.6 3 3	D2 4 2.0 4	D3 3 2.4 3 3	2.5 4 2.5	D5 2 .8 2	D6 3 1.8 3	2.3	1.0	PIC 14 5.2 14 14	PROS 25 4.4 25 25	TEST 25 8.8 26 8

SCORES OF NEW FIFTH GRADE CURRICULUM

ASSIGNMENT POINTS	D1 20	RD1 20	D2 10	RD2 10	D3 10	RD3 10	D4 10	D4A 10	RD4 10	D5 10	RD5	D6 10	RD6 10	D7 10	D8 10	D9 10	24	PR06 26	30
STUDENT #15 STUDENT #35 STUDENT #45 STUDENT #45 STUDENT #45 STUDENT #6 STUDENT #10 STUDENT #112 STUDENT #112 STUDENT #112 STUDENT #114 STUDENT #115 STUDENT #115 STUDENT #123 STUDENT #123 STUDENT #125 STUDENT #221 STUDENT #221 STUDENT #225 STUDENT #235 STUDENT #235 STUDENT #336 STUDENT #337 STUDENT #336 STUDENT #337 STUDENT #336 STUDENT #337	172000000000000000000000000000000000000	2777486129538821138453683544133149935167103333		30143332210198484479664283130123632153602425		170338227555000000000000000000000000000000000	7777700107777000100100100100100100100100	100 100 100 100 100 100 100 100 100 100	70101047780088000570000901000406759009007848		777104645648009700099506509250336747808400000	100100100100100100100100100100100100100	3055355707370310013153333553355353535353535353535353	100000000000000000000000000000000000000			24 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	= 00040616043660166440602000002400340660602 2022222222222222222222222222222	==231366903556079853889747756827935163429695546=TEST
ASSIGNMENT POINTS DAILY MEAN 1 DAILY RANGE DAILY MODE	D1 20 9.4 8 20	RD1 20 12.2 17 13	10 9.8 10	RD2 10 4.4 10	10 9.8 10	RD3 10 6.1 10	10 8.5 10	9.5 10	RD4 10 5.6 10	10 9.5 10	10 7.0 10 10	9.5 10 10 10	10 4.7 10 3	D7 10 8.6 10	10 9.1 10 10	09 10 8.8 10	24 14.0 24 24	26 15.2 26 26	30 20.9 30 25

APPROVAL SHEET

The thesis submitted by Charles S. Saunders has been read and approved by the following committee:

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The final copies have been examined by the director of the thesis and the signature which appears below verifies the fact that any necessary changes have been incorporated and that the thesis is now given final approval by the Committee with reference to content and form.

The thesis is therefore accepted in partial fulfillment of the requirements for the degree of Master of Arts.

7/18/89

Date

Director's Signature