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CURRICULUM PROBLEMS AND RECOMMENDATIONS: COWDEN-HERRICK COMMUNITY CONSOLIDATED SCHOOL DISTRICT 11 BY JAMIE R. DRISKILL **THESIS** SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF Specialist in Education IN THE GRADUATE SCHOOL, EASTERN ILLINOIS UNIVERSITY CHARLESTON, ILLINOIS 1981 YEAR I HEREBY RECOMMEND THIS THESIS BE ACCEPTED AS FULFILLING THIS PART OF THE GRADUATE DEGREE CITED ABOVE DATE DATE

Sept. 28, 1981 DATE

# CURRICULUM PROBLEMS AND RECOMMENDATIONS: COMDEN-HERRICK COMMUNITY CONSOLIDATED SCHOOL DISTRICT 11

BY

#### JAMIE R. DRISKILL

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#### ABSTRACT OF A FIELD STUDY

Submitted in partial fulfullment of the requirements for the degree of Specialist in Education at the Graduate School of Eastern Illinois University.

CHARLESTON, ILLINOIS

1981

This field study examines curriculum. Historical developments and trends are enumerated and discussed. A recent development in the field of education, minimal competency testing, and its possible effects on curriculum are reviewed.

Specifically, this paper examines curriculum problem areas in the Cowden-Herrick Community Consolidated School District #11, Cowden, Illinois. The Cowden-Herrick Community Consolidated School District #11 is an elementary (K-8) district with an enrollment of four hundred and twenty students. A survey of administrators and teachers was conducted in the following basic curriculum areas: reading, mathematics, language arts/communication skills, science, and social studies. These five areas were selected as a beginning point for curriculum evaluation in the Cowden-Herrick Elementary Schools.

Survey results were itemized and an analysis was conducted to determine trends or consensus of opinion. All of the five areas surveyed were perceived as having some problems. Even though teacher response was limited in science and social studies areas, teachers were in agreement that the science curriculum area had more problems than any other subject area surveyed.

Administrators and teachers were, in general, in agreement as to what specific problems existed within each curriculum area surveyed. Additionally, administrators were in agreement on the survey instrument approximately sixty-three percent of the time.

As a result of the School District Curriculum Problems Survey several recommendations/suggestions were made in relationship to the Cowden-Herrick Community Consolidated School District #11. Among recommendations were: consideration be given to utilization of the Illinois Problem Index Survey; early involvement of teachers in curriculum problem solving efforts; a schedule of inservice workshops for teachers of the district in the science and social studies areas; and Curriculum Committees, which are adequately funded, need to be established in the school district.

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#### ACKNOWLEDGEMENTS

The author of this field study wishes to express his appreciation to the teachers of Cowden-Herrick Community Consolidated School District #11 who participated in the curriculum survey. Special appreciation is also given to the author's wife, Carolyn Driskill, and Tim Long, a friend, for their help and encouragement while working on this field study.

#### CHAPTER I

#### INTRODUCTION

The objectives of this field study are to examine curriculum problem areas in the Cowden-Herrick Elementary Schools and to develop recommendations related to possible solution of those problem areas. An additional objective is to provide teachers and administrators with a starting point for curriculum development and improvement. If the aforementioned objectives are accomplished, then this field study will have served its purpose.

#### HISTORICAL MOVEMENTS/TRENDS AFFECTING CURRICULUM

Many significant developments have occurred in the United States that have affected the curriculum of elementary schools. Some of these movements and events of the past century as identified by Doll were as follows:

PERIOD OR DATE	EVENT			
1860 to <b>1</b> 890	A continuing struggle for establishment of free public schools was in process.			
1860 to 1890	Arrival of immigrants and doubling of population created demands for new and broadened types of schooling.			

PERICD OF DATE	EVENT
1860 to 1890	Manual training was introduced widely in elementary schools.
The 1860's	Newly established normal schools assumed responsibilities for preparing teachers, and continued to transform school keeping into school teaching.
1873	The first public school kinder- garten was opened in Saint Louis.
1890 to 1920	Herbart's view of "apperception", formulated into his famous five steps (preparation, presentation, comparison and abstraction, generalization, and application), encouraged correlation of subject matter, especially in the elementary schools.
1690 to 1920	Edward L. Thorndike and Charles Judd began studying the curriculum quantitatively and scientifically as they opened an era of mental measurement.
1895	The Committee of Fifteen on Ele- mentary Education urged concentra- tion and correlation of subjects taught in the elementary schools.
1896	John Dewey founded his Laboratory School at the University of Chicago, a school which had special concerns for the interests and purposes of learners.
1900 to 1920	The junior high school movement started.

EVENT

The 1920's and 1930's

The 1920's constituted a decade during which particular attention was given to the curriculum of the elementary school. The 1920's heralded a long era of scientific studies in education, including immediate emphasis on testing and measurement. Curriculum specialists began asking that the curriculum be made more relevant to the problems and activities of contemporary life.

The 1940's and 1950's

Little money was being spent for curriculum study as opposed to the funds being expended for school building construction, pupil transportation, bonding and insurance costs, attorneys' fees, and the public was becoming disenchanted with education as it existed and was pushing the schools to do better. The 1950's became a time of ferment for school systems in the United States. McCarthyism, changes in the family as an institution, and criticism about scientific and mathematical illiteracy in the general population was growing. The launching of Sputnik in 1957 caused much criticism to be directed at American schools. Part of that which came to be called "curriculum reform" was a variant of classic efforts at reform, emphasizing indirect ways of changing programs through adding facilities and materials and altering organizational plans.

#### PERIOD OR DATE

EVENT

The 1960's

Updating of subject matter under the guidance of scholars in subject fields dictated the selection of experiences for students. Money began to pour into curriculum study by way of the National Defense Education Act, the National Science Foundation, and private, tax-exempt foundations. Other movements affecting schools during the decade of the sixties were individualized instruction, non-grading, open classrooms, urban education, and increasing teacher militancy. Desegregation, as mandated by law and the courts, also had an affect on schools and curriculum of the sixties.

The 1970's

The decade of the seventies saw decreasing enrollments, reduction of school funding, use of behavioral objectives, performance criteria, and early childhood education, as some of the events affecting schools and curriculum.

Thus far in the decade of the eighties, demands by the public for increased accountability, minimal competency testing of students, increased financial problems and further reduction in staff, have all had a part in affecting curriculum.

Ronald C. Doll, <u>Curriculum Improvement</u>, 3rd ed. (Boston: Allyn and Bacon, Inc., 1974), pp.8-12.

To some extent each of the previously mentioned events has played a part in curriculum development and improvement at the local school district level. These developments and others not mentioned have helped to make the school curriculum what it is today.

Major trends that have influenced the evolution of curriculum in the United States are:

- 1. Schools and school systems everywhere have frankly copied plans, procedures, and curriculum content from other schools and school systems.
- 2. Educational principles, such as that of schooling for everyone, have been adopted in substance and modified in detail whenever they have struck a popular chord.
- 3. Experimentation has occurred, but it has usually been informal and its results have remained largely untested.
- 4. National committees have determined general objectives, policies, and programs.
- 5. Even those educational ideas which have been based on the soundest evidence have been adopted very slowly by practitioners.
- 6. The schools, as an instrument of American Society, have been subjected to numerous public pressures, the nature of which tends to change from generation to generation.

<sup>&</sup>lt;sup>2</sup>Ibid., pp. 12-13.

The processes and trends thus far enumerated should serve to make teachers, administrators, and all others interested in curriculum aware of possible problems and real challenges in the area of curriculum change and improvement.

#### MINIMAL COMPETENCY AND ITS EFFECT ON CURRICULUM

A recent phenomena on the educational scene that will play an important part in curriculum development is the issue of minimal competency testing of students. Presently, some thirty-eight plus states require minimal competency testing of students in some form or another. In the state of Illinois, on August 31, 1978, a law was passed directly relating to minimal competency testing of students in the public schools of the state. This law requires the State Board of Education to encourage local school districts to establish minimum competency testing programs, and provide them with procedures and materials to assist in the establishment of such programs by December 15, 1978.4

<sup>3</sup>Larry Huber, "MCT-A Competency Test for Westville, Illinois Eighth and Twelfth Graders" (Ed. S. thesis, Eastern Illinois University, 1980), p. 5.

<sup>4</sup>Ibid.

The Cowden-Herrick Elementary Schools are presently in the process of complying with state law on minimum competency testing of students. A survey was completed in the spring of 1981, in regards to those areas that district residents thought should be considered in developing minimal competency testing for students of the Cowden-Herrick Schools. During this past school year 1980-1981 teachers and administrators have been involved in writing objectives and test items for minimum competency testing to be done at Cowden-Herrick School during the 1981-1982 school year.

Areas of expressed concern by district residents included consumer education, language arts/communication skills, and mathematics. Each of these areas, of necessity, must be considered by those working with curriculum as possible subject areas for curriculum change and improvement. These working on curriculum probem areas should not, however, neglect the other subjects that were not listed as concerns by school district residents.

The Cowden-Herrick Elementary School district was not organized until the school year 1971. Prior to this organization, there were separate elementary and high school districts at both Cowden and Herrick. These districts were extremely small in enrollment, in geographical area, and were not cost efficient.

There were, undoubtedly, some efforts at solving curriculum problems in the Cowden and Herrick school districts prior to consolidation, but such efforts were infrequent, poorly planned, and for the most part ineffective. The first real concerted effort at dealing with curriculum and curriculum problem areas was given impetus by the Illinois Office of Education under Michael Bakalis as State Superintendent of Public Instruction.

The early 1970's witnessed the implementation of state education guidelines at the local district level through the A-160 Program Plan. Schools districts throughout Illinois, many for the first time in years, were forced to take a look at school curriculum and curriculum problem areas. Many school districts attempted to develop comprehensive curriculum guides in all subject areas K-12. Also along with this effort, course outlines were developed in local school districts.

The Cowden-Herrick Elementary School district.

developed curriculum guides and course outlines during
the school years 1973-1974. As was true with many other
school districts during this time, both curriculum guides
and course outlines left a lot to be desired from the
educational point of view. These shortcomings must be
shared with requirements by the then Illinois Office of
Education and its superintendent, Michael Bakalis. The
Illinois Office of Education required too much of local
school districts in a short span of time. As a result,
curriculum guides that were developed were in many cases
less than adequate.

At the present time, the Cowden-Herrick Elementary School district has a textbook adoption plan that is being utilized to the extent that financial resources allow. The textbook adoption plan allows replacement of textbooks every nine years.

#### CHAPTER II

#### CURRICULUM PROBLEMS SURVEY AND RESULTS

The author's interest in curriculum problems is a result of his previous experiences in education. He has served on several curriculum development committees.

Additionally, he has been involved in revision of curriculum guides and development of course outlines. Most of his curriculum experiences have been in the science area. As principal for the Cowden-Herrick Community Consolidated School District #11, the author had as one responsibility curriculum planning and development for the kindergarten through eighth grade level.

#### SELECTING AN INSTRUMENT

The instrument used for this curriculum problem survey is a modification of the Illinois Problems Index Survey Instrument (Appendix B). Each statement on the survey instrument was revised so that the statement was neither positive nor negative. The survey instrument used is found in Appendix A of this field study.

The Illinois Problems Index was developed by the staff of the Illinois State Board of Education. The first Illinois

Problems Index was developed and field tested in approximately sixty school districts during the 1977-78 and 1978-79 school years. The Illinois Problems Index approach to school district needs assessment is an approach that is uncomplicated and characterized by ease and rapidity of administration while being sound in theory and practice. 5

The Illinois Problems Index used by the author is a 1979-80 revision of the original Illinois Problems Index. The Illinois Problems Index was developed with assistance and co-operation from the Illinois Association of Supervision and Curriculum Development, the Illinois Association of School Administrators, the Illinois Association of School Business Officials, and a parent from a participating school district.

#### CURRICULUM AREAS SURVEYED

The survey instruments selected were those that dealt with reading, language arts/communication skills, mathematics, science, and social studies. These five areas were selected to be surveyed for the following reasons: previous concern expressed by school district residents in the areas of language arts/communication skills and

<sup>5</sup> Illinois State Board of Education, Establishing Educational Priorities Through the Illinois Problems Index (Springfield, Illinois: Illinois State Board of Education, 1980), p. 3.

mathematics on a Basic Skills Survey completed in the spring of 1980, and general agreement among educators that the five areas selected represent basic subject content areas in grades kindergarten through eight.

#### CONDUCTING THE SURVEY

The Curriculum Problems Survey was mailed to teachers and administrators of the Cowden-Herrick Community Consolidated School District #11 on Wednesday, July 1, 1981. Since the survey dealt with reading, language arts/communication skills, mathematics, science, and social studies, only teachers who taught in those subject areas were surveyed. Eighteen of twenty-one teachers returned their completed survey instruments. This is a response rate of eighty-five and seven tenths percent.

#### INSTRUMENT DATA ARRANGEMENT

At the completion of data collection, both teacher and administrator responses were arranged in tabular form. Individual items on the five areas surveyed were arranged in rank order based on the percentage of negative response for each item. The item numbers in tables one through ten are the same as the item numbers found in Appendix A of this field study.

#### TABLE 1 TEACHER SURVEY RESULTS FOR READING

Teachers completing this survey instrument indicated that all items on the reading survey represented problem areas. A negative response rate of greater than fifty percent was given for item numbers 3, 17, 14, 18, 7, 8, 15, and 4. Most teachers surveyed, eighty-seven and five tenths percent, indicated that students can read. Also a large majority of teachers indicated that students can use indexes, tables of content, and glossaries. The response rate on the reading survey was among the highest of the five instruments used.

#### TABLE 2 TEACHER SURVEY RESULTS FOR MATHEMATICS

One hundred percent of the teachers responding indicated that item numbers 14, 15, 16, 17, and 9 represented problem areas. It should be noted however, that total responses for the previously mentioned items were very low. Item numbers 2 and 5 were indicated by one hundred percent of teachers responding as not being problem areas. The teacher response rate for items 2 and 5 was much higher than the rate for items 14, 15, 16, 17, and 9.

TEACHER SURVEY RESULTS FOR READING

TABLE 1

Negativ	e Response	Positive	Response	
%	Number	%	Number	Item Number
80.0	12	20.0	3	3
73.3	11	26.7	4	17
71.4	10	26.6	4	14
71.4	10	28.6	4	18
64.3	9	35.7	5	7
58.3	7	41.7	5	8
57.1	8	42.9	6	15
53.3	8	46.7	7	4
46.2	6	53.8	7	12
42.9	6	57.1	8	9
37.5	6	62.5	10	13
35.7	5	64.3	9	10
33.3	5	66.7	10	5
31.3	5	68.7	11	16
25.0	4	75.0	12	2
18.8	3	81.2	13	6
14.2	2	85.8	12	11
12.5	2	87.5	14	1

TEACHER SURVEY RESULTS FOR MATHEMATICS

TABLE 2

Negative	e Response	Positive	Response	88
90	Number	%	Number	Item Number
100.0	1	0	0	14
100.0	4	0	0	15
100.0	4	0	0	16
100.0	4	0	0 ,2	17
100.0	4	0	0	9
77.8	7	22.2	2	20
75.0	3	25.0	1	18
71.4	5	28.6	2	10
66.7	2	33.3	1	19
58.3	7	41.7	5	6
38.5	5	61.5	8	11
37.5	3	62.5	5	8
33.0	3	66.7	6	7
30.0	3	70.0	7	13
18.2	2	81.8	9	4
16.7	2	82.3	10	3
9.1	1	90.9	10	12
8.3	1	91.7	11	1
0	0	100.0	11	2
0	0	100.0	12	5

## TABLE 3 TEACHER SURVEY RESULTS FOR COMMUNICATION SKILLS/LANGUAGE ARTS

At least fifty percent of those teachers responding to this survey instrument indicated that item numbers 10, 17, 12, 15, 9, 5, 1, 13, and 16 represent problem areas in the communication skills/language arts area. Teachers agreed that approximately fifty-three percent of the items on this particular survey were indicative of problem areas.

# TABLE 4 TEACHER SURVEY RESULTS FOR SCIENCE

## TABLE 5 TEACHER SURVEY RESULTS FOR SOCIAL STUDIES

Fewer teachers responded to tables 4 and 5 than any of the preceeding tables. One hundred percent of those teachers responding to item numbers 1, 3, 16, 9, 10, 11, and 15 (TABLE 4) agreed that the statements represented problem areas in the science curriculum. Likewise, one hundred percent of those teachers responding to item numbers 8, 12, 13, and 14 (TABLE 5) agreed that the statements represented problem areas in the social studies curriculum.

TABLE 3

TEACHER SURVEY RESULTS FOR COMMUNICATION SKILLS/LANGUAGE ARTS

Negative Response		Positive Response		
Ã,	Number	%	Number	Item Number
92.9	13	7.1	1	10
75.0	9	25.0	3	17
66.7	10	33.3	5	12
66.7	6	33.3	3	<b>1</b> 5
64.3	9	35.7	5	9
53.3	8	46.7	7	5
50.0	8	50.0	8	1
50.0	7	50.0	7	13
50.0	5	50.0	5	16
46.2	6	53.8	7	4
40.0	6	60.0	9	6
35.7	5	64.3	9	8
35.7	5	64.3	9	11
28.6	4	71.4	10	7
26.7	4	73.3	11	3
26.7	4	73.3	11	14
25.0	4	75.0	12	2

TABLE 4

TEACHER	SURVEY	RESULTS	FOR	SCIENCE	
THOUSE	DIANTE	THEFT	I OIL	OOTHIOL	

Negative	Response	Positive	Response	
%	Number	%	Number	Item Number
100.0	7	0	0	1
100.0	6	0	0	3
100.0	5	0	0	16
100.0	4	0	0 *	9
100.0	3	0	0	10
100.0	3	0	0	11
100.0	1	0	0	15
85.7	6	14.3	1	6
85.7	6	14.3	1	7
83.3	5	16.7	1	2
80.0	4	20.0	1	5
80.0	4	20.0	1	8
66.7	2	33.3	1	12
66.7	2	33.3	1	13
66.7	2	33.3	1	14
60.0	3	40.0	2	4
33.3	1	66.7	2	17

TEACHER SURVEY RESULTS FOR SOCIAL STUDIES

TABLE 5

T.	EACHER SURVE	Y RESULTS FOR	SUCTAL ST	UDIES
Vegative	Response	Positive	Response	
%	Number	H,	Number	Item Number
100.0	3	0	0	8
100.0	3	0	0	12
100.0	3	0	0	13
100.0	2	0	0	14
50.0	3	50.0	3	1
50.0	3	50.0	3	7
50.0	2	50.0	2	10
50.0	2	50.0	2	11
42.9	3	57.1	Į‡	3
42.9	3	57.1	4	5
33.3	3	66.7	6	6
33.3	2	66.7	4	4
25.0	1	75.0	3	16
25.0	1	75.0	3	17
22.2	2	77.8	7	2
14.3	1	85.7	6	9
0	0	100.0	2	15

#### TABLE 6 ADMINISTRATOR SURVEY RESULTS FOR READING

The two administrators who were surveyed for this curriculum problems study agreed that item numbers 2, 3, 7, 8, 12, 14, and 16 represent problem areas in the reading curriculum. Administrators were in agreement on the reading survey for approximately sixty-seven percent of the survey items.

#### TABLE 7 ADMINISTRATOR SURVEY RESULTS FOR MATHEMATICS

Administrators agreed that item numbers 4, 6, 9, 13, 16, 17, and 20 represented problem areas in the mathematics curriculum. Administrators were in agreement on the mathematics survey for fifty-five percent of the survey items.

# TABLE 8 ADMINISTRATOR SURVEY RESULTS FOR COMMUNICATION SKILLS/LANGUAGE ARTS

Administrators agreed that item numbers 3, 5, 12, 15, 16, and 17 represented problem areas in the communication skills/language arts curriculum. Administrators were in agreement on this particular survey instrument for forty-seven percent of the survey items.

ADMINISTRATOR SURVEY RESULTS FOR READING

Negative	Response	Positive	Response	¥
%	Number	%	Number	Item Number
100.0	2	0	0	2
100.0	2	0	0	3
100.0	2	0	0	7
100.0	2	0	0	. 8
100.0	2	0	0	12
100.0	2	0	0	14
100.0	2	0	0	18
50.0	1	50.0	1	1
50.0	1	50.0	1	4
50.0	1	50.0	1	9
50.0	1	50.0	1	13
50.0	1	50.0	1	15
50.0	1	50.0	1	17
0	0	100.0	2	5
0	0	100.0	2	6
0	0	100.0	2	10
0	0	100.0	2	11
0	0	100.0	2	16

TABLE 7

## ADMINISTRATOR SURVEY RESULTS FOR MATHEMATICS

Negative Response		Positive Response			
c/6	Number	7,	Number	Item Number	
100.0	2	0	0	4	
100.0	2	0	0	6	
100.0	2	0	0	9	
100.0	2	0	0 .	13	
100.0	2	0	0	16	
100.0	2	0	0	17	
100.0	2	0	0	20	
50.0	1	50.0	1	7	
50.0	1	50.0	1	8	
50.0	1	50.0	1	10	
50.0	1	50.0	1	11	
50.0	1	50.0	1	12	
50.0	1	50.0	1	14	
50.0	1	50.0	ı	15	
50.0	1	50.0	1	18	
50.0	1	50.0	1	19	
0	0	100.0	2	1	
0	0	100.0	2	2	
0	0	100.0	2	3	
0	0	100.0	2	5	

ADMINISTRATOR SURVEY RESULTS FOR

COMMUNICATION SKILLS/LANGUAGE ARTS

TABLE 8

Negative	Response	Positive	Response	3.
76	Number	%	Number	Item Number
100.0	2	0	0	3
100.0	2	0	0	5
100.0	2	0	0	12
100.0	2	0	0	15
100.0	2	0	0	16
100.0	2	0	0	17
50.0	1	50.0	1	1
50.0	1	50.0	1	2
50.0	1	50.0	1	4
50.0	1	50.0	1	6
50.0	1	50.0	1	8
50.0	1	50.0	1	9
50.0	1	50.0	1	10
50.0	1	50.0	1	11
50.0	1	50.0	1	13
0	0	100.0	2	7
0	0	100.0	2	14

#### TABLE 9 ADMINISTRATOR RESULTS FOR SCIENCE

An analysis of items on the administrator survey for science show that both administrators agreed item numbers h, 5, 6, 9, 11, 14, and 16 were indicative of problem areas. Additionally on the science survey, administrators agreed on seventy-six percent of the items. One of the administrators involved in the survey has strong academic preparation in science.

#### TABLE 10 ADMINISTRATOR RESULTS FOR SOCIAL STUDIES

An analysis of items on the social studies survey shows that administrators were in agreement that item numbers 1, 3, 4, 8, 11, 12, and 14 represented problem areas. Administrators were in agreement on the social studies survey instrument for seventy-one percent of the items. One of the two administrators involved in this survey has strong academic preparation in social studies.

ADMINISTRATOR SURVEY RESULTS FOR SCIENCE

TABLE 9

Negative	Response	Positive	Response	
90	Number	%	Number	Item Number
100.0	2	0	0	4
100.0	2	0	0	5
100.0	2	0	0	8
100.0	2	0	0	9
100.0	2	0	0	11
100.0	2	0	0	14
100.0	2	0	0	16
50.0	1	50.0	1	2
50.0	1	50.0	1	3
50.0	1	50.0	1	10
50.0	1	50.0	1	12
0	0	100.0	2	1
0	0	100.0	2	6
0	0	100.0	2	, 7
0	0	100.0	2	13
0	0	100.0	2	15
0	0	100.0	2	17

TABLE 10

## ADMINISTRATOR SURVEY RESULTS FOR SOCIAL STUDIES

Negative	e Response	Positive	Response	-
50	Number	%	Number	Item Number
100.0	2	0	0	1
100.0	2	0	0	3
100.0	2	0	0	4
100.0	2	0	0	8
100.0	2	0	0	11
100.0	2	0	0	12
100.0	2	0	0	14
50.0	1	50.0	1	2
50.0	1	50.0	1	5
50.0	1	50.0	1	7
50.0	1	50.0	1	13
50.0	1	50.0	1	15
0	0	100.0	2	6
0	0	100.0	2	9
0	0	100.0	2	10
0	0	100.0	2	16
0	0	100.0	2	17

#### CHAPTER III

#### CONCLUSIONS AND RECORDENDATIONS

Based upon the results of the School District Curriculum Problems Survey the following conclusions are offered: (1) Kindergarten through eighth grade teachers agree that specific problems exist in each of the five curriculum areas surveyed. (2) More teachers were confident of their perception of problem areas in reading, language arts/communication skills, and mathematics.

The science and social studies areas received the fewest responses from teachers surveyed. One reason for the low rate of response, in the science and social studies areas, might be teachers lack of academic preparation in the science and social studies fields. Another reason for low rate of response, in these areas, may be that most lower elementary (K-3) teachers spend little, if any time, teaching science or social studies.

Teachers who responded to the science survey believe that most of the statements (16 of 17) are indicative of problem areas in the science curriculum.

The two administrators (district superintendent and building principal) were in agreement on items in the survey approximately sixty-three percent of the time.

Administrators agreed more on items in the science and social studies areas than any other section of the curriculum survey. One administrator has a strong social studies background and the other a strong science background.

Administrators agreed least in the area of language arts/communication skills. The lack of agreement is perhaps due to weak undergraduate academic preparation in the language arts area by both administrators. Another factor affecting language arts area agreement may be the differences in teaching and administrative experience of the administrators surveyed.

Considering the results of the Curriculum Problems

Survey and conclusions that have been made, the following items are recommended for discussion, consideration, and possible implementation by Cowden-Herrick Community Consolidated School District #11:

l. In order to gain a better indication of problem areas in the school district the Illinois Problem Index should be utilized. Used properly the Illinois Problem Index will give all persons involved a better conception of curriculum problem areas as well as other problem areas not considered in this field study.

- 2. If the Illinois Problems Index is not utilized by the district, then possible use of the school district Curriculum Problems Survey should be considered by both high school and elementary districts at Cowden-Herrick. All teachers and administrators should be included in the survey. As a result, greater articulation should occur.
- 3. Based on the results of this field study in-service workshops should be scheduled for teachers in the science and social studies areas. Administrators might serve as resource people for the workshops.
- 4. At an early stage in dealing with curriculum problems, teachers should be actively involved. This field study would have been more meaningful if the total teaching staff were involved in the curriculum problem study at its inception.
- 5. Curriculum Committees need to be extablished at the Cowden-Herrick Community Consolidated School District #11. The committees need to agree on objectives and goals and should be adequately funded by the board of education. Various areas of the curriculum need to be worked with on a rotating basis.
- 6. Administrators, as well as teaching staff, would profit from attendance at Curriculum Workshops and conferences. Attendance at Curriculum Workshops should be encouraged by administrators and school board members.

If any of the recommendations enumerated above are discussed, considered, or implemented in the Cowden-Herrick Community Consolidated School District #11, then students, teachers, administrators, and other district residents interested in education will be greatly benefited.

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#### APPENDIX A

CURRICULUM PROBLEMS SURVEY INSTRUMENT

#### Reading

- 1. Students (can, cannot) read.
- 2. Students (do, do not) comprehend what is read.
- 3. Students (do, do not) analyze what is read.
- 4. Students (do, do not) reason logically from what is read.
- 5. Students (do, do not) make judgments about what is read.
- 6. Students (do, do not) have skills for learning new words.
- 7. Students (do, do not) analyze word root, prefixes and suffixes to determine the meaning of words.
- 8. Students (do, do not) discriminate between fact and opinion.
- 9. Students (do, do not) draw conclusions, generalizations, and inferences from what is read.
- 10. Students (can, cannot) use reference materials efficiently (e.g., dictionaries, encyclopedias).
- 11. Students (can, cannot) use indexes, table of contents, and glossaries.
- 12. Students (can, cannot) read graphic materials (e.g., maps, tables, graphs).
- 13. Students (do, do not) read aloud in an effective manner.
- 14. Students (do, do not) adapt the style and speed of their reading to particular purposes.
- 15. Students (do, do not) vary their reading materials.

- 16. Students (do, do not) choose to read on their own.
- 17. Students (do, do not) follow written directions.
- 18. Students, ranging from remedial to gifted, (are, are not) provided with appropriate curriculum alternatives.

#### Mathematics

- 1. Students (do, do not) know common mathematical definitions, facts and symbols.
- 2. Students (do, do not) add and subtract with whole numbers.
- 3. Students (do, do not) multiply and divide with whole numbers.
- 4. Students (do, do not) know relationships among different units in a given measurement system.
- 5. Students (do, do not) make transactions involving money.
- 6. Students (do, do not) understand the metric system of measurement.
- 7. Students (do, do not) compute with fractions.
- 8. Students (do, do not) compute with decimals.
- 9. Students (do, do not) apply ratios and proportions.
- 10. Students (do, do not) use percents.
- 11. Students (do, do not) solve word problems.
- 12. Students (do, do not) use charts, graphs, tables.
- 13. Students (do, do not) use maps, scale-drawings, and diagrams.
- 14. Students (do, do not) know algebra concepts.
- 15. Students (do, do not) solve algebra problems.
- 16. Students (do, do not) construct geometric proofs.
- 17. Students (do, do not) solve geometry problems.
- 18. Students (are, are not) offered higher level mathematics.

- 19. Students (do, do not) receive instruction in calculators and computers.
- 20. Students, ranging from remedial to gifted, (are, are not) provided with appropriate curriculum alternatives.

#### Communication Skills/Language Arts

- 1. Students (do, do not) have listening skills.
- 2. Students (are, are not) required to practice listening skills.
- 3. Students (do, do not) have an adequate vocabulary.
- 4. Students (do, do not) have creative oral expression.
- 5. Students (do, do not) enunciate clearly.
- Students (are, are not) required to practice speaking skills.
- 7. Students (do, do not) express their thoughts orally so others can understand.
- 8. Students (do, do not) write legibly.
- 9. Students (do, do not) use correct punctuation.
- 10. Students (do, do not) use correct grammar.
- 11. Students (do, do not) spell correctly.
- 12. Students (do, do not) express their thoughts in writing so others can understand.
- 13. Students (do, do not) have creative written expression.
- 14. Students (are, are not) required to practice writing skills.
- 15. Students (are, are not) aware of nonverbal communication techniques.
- 16. Students (are, are not) aware of techniques used in mass media and advertising.
- 17. Students (do, do not) communicate through the performing arts, (e.g., theatre, music, dance).

#### Science

- 1. Students (do, do not) know the scientific terminology and symbols.
- 2. Students (do, do not) know historical aspects of science and technology.
- 3. Students (do, do not) know the difference between pure and applied science.
- 4. Students (do, do not) know how to use the scientific method in problem solving.
- 5. Students (do, do not) know how to reason inductively and deductively.
- 6. Students (do, do not) know fundamental techniques associated with scientific inquiry (e.g., observing, classifying, inferring).
- 7. Students (do, do not) have opportunity to use scientific laboratory equipment and procedures.
- 8. Students (do, do not) understand the purpose of theories or scientific hypotheses.
- 9. Students (do, do not) know how to interpret and report data.
- 10. Students (do, do not) know the fundamental principles of biology (e.g., classical mechanics, electricity).
- 11. Students (do, do not) know the fundamental principles of physics (e.g., classical mechanics, electricity).
- 12. Students (do, do not) know the fundamental principles of chemistry (e.g., atomic and molecular nature of matter).
- 13. Students (do, do not) know the fundamental principles of earth science (e.g., geological formations).
- 14. Students (do, do not) evaluate scientific information as presented by the mass media.

- 15. Students (do, do not) choose to take elective courses in science.
- 16. Students, ranging from remedial to gifted, (are, are not) provided with curriculum alternatives.
- 17. Students (are, are not) made aware of career opportunities in science areas.

#### Social Studies

- 1. Students (do, do not) know how social organizations begin, develop, and function.
- 2. Students (do, do not) know how peer groups affect human relationships.
- 3. Students (do, do not) know how the physical environment affects the development of social organization.
- 4. Students (do, do not) know basic concepts in the social studies.
- 5. Students (do, do not) know the history, geography, and culture of the local area.
- 6. Students (can, cannot) read maps and globes.
- 7. Students (do, do not) understand contributions made by past and present civilizations.
- 8. Students (do, do not) understand the historical background of modern political thought and theory.
- 9. Students (can, cannot) cope with change.
- 10. Students (do, do not) know about the management of world resources.
- 11. Students (do, do not) understand important economics, social and/or political problems.
- 12. Students (do, do not) understand the socialization process.
- 13. Students (can, cannot) recognize opposing value systems and their influences on social issues.
- 14. Students (do, do not) understand interrelationships between beliefs, values, and behavior.
- 15. Ethnic and cultural content (is, is not) integrated throughout the curriculum.

- 16. Courses (are, are not) logically sequenced.
- 17. Course objectives (do, do not) exist.

### APPENDIX B

ILLINOIS PROBLEMS INDEX INSTRUMENT

District Name

County	y I.I. District
Board Member	Parent
Administrator	Community Member
Teacher	(non Parent)
Student	Other

### ILLINOIS PROBLEMS INDEX INSTRUMENT II: READING

Other If you circled "Y", indicate the grade level(s) If you circled "Y", circle the at which the problem occurs: numbers below that describe Circle "Y" for "Yes" if the statement represents a current the best evidence you are using to Grades K.3 Grades 4.6 Grades 7.8 Grades 9-12 All Grades Other or emerging problem in your school district. Circle "N" for "No" document that a problem exists. 5 6 if the statement does not represent a problem. Circle "U" if you are undecided. Add additional problem statements at the end of the list if necessary. MATERI STUDENT(S) I KNOW STUDIN GRADE LEVEL(S) CURRICULUMA IS A PROBLEM IS NOT A PROBLEM RESEARCH S EXPERT OPIN UNDECIDED BUDGET OTHER TEST CODE PROBLEM STATEMENT Ù 2 3 5 6 7 Y N 4 0101 Students cannot read. 0102 Students do not comprehend what is read. N U 1 2 3 4 5 6 7 Υ N 2 3 4 5 6 7 0103 Students do not analyze what is read. Υ U 1 2 5 6 7 0104 Students do not reason logically from what is read. Υ N U 3 4 2 0105 Students do not make judgments about what is read. Y N U 1 3 4 5 6 7 0106 Students do not have skills for learning new words. Y N U 2 3 4 5 6 7 1 0107 Students do not analyze word root, prefixes and suffixes Y N U 1 2 3 4 5 6 7 to determine the meaning of words. 2 4 5 7 0108 Students do not discriminate between fact and opinion. Y N U 1 3 6 0109 Students do not draw conclusions, generalizations, and N U 2 3 4 5 6 7 Y 1 inferences from what is read. 0110 Students cannot use reference materials efficiently (e.g. N U 2 3 4 5 6 7 Y 1 dictionaries, encyclopedias). 0111 Students cannot use indexes, table of contents, and Y N U 1 2 3 4 5 6 7 glossaries. 0112 Students cannot read graphic materials (e.g., maps, Υ N U 1 2 3 4 5 6 7 tables, graphs). 0113 Students do not read aloud in an effective manner. N 2 3 4 5 6 7 U 1 Υ 0114 Students do not adapt the style and speed of their reading N U 2 4 5 7 Y 1 3 6 to particular purposes. 0115 Students do not vary their reading materials. N U 2 3 4 5 6 7 Y 1 0116 2 3 5 7 Students do not choose to read on their own. Y N 4 6

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Administrator   Community Member												
	Students, ranging from remedial to gifted, are not pro-				1							

D	ILLINDIS PROBLEMS INDEX INSTRUM MATHEMATICS	1EN	ΤII	:		A c		Mem istrat		<u>الو</u>	Cor	nmu n pa		Member
or emerging prob	"Yes" if the statement represents a current at which the problem of the min your school district. Circle "N" for "No"  1 = Grades K-3 2 = Grades 4-6 2 = Grades 4-6	ccur 4 5	s: = (		9-1:			nun the	nber best	s t	elo: den	e yo	hat ou are obler	rcle the describe using to n exists.
are undecided. Add additional problem statements at the end of the list if necessary.						(S)	CHOOL	TAIL TAIL	UDIEG	ON ES			MATERIALS	
	+	UNDECIDED	GRADE	or revel	CLASSROOM/SCHOOL	STUDENT (S) I KNOW	RESEARCH STUDIES	TEST SCORES	BUDGET	URRICHT	OTHER MATERIALS			
CODE	PROBLEM STATEMENT	12	IS.		$\prod_{i=1}^{\infty}$	1								
0201	Students do not know common mathematical definitions, facts and symbols.	Y	N	U		STREET, ST.	1	2	3	4	5	6	7	
0202	Students do not add and subtract with whole numbers.	Y	N	U			1	2	3	4	5	6	7	
0203	Students do not multiply and divide with whole numbers.	Υ	N	U			1	2	3	4	5	6	7	
0204	Students do not know relationships among different units in a given measurement system.	Y	N	U		200000000000000000000000000000000000000	1	2	3	4	5	6	7	
0205	Students do not make transactions involving money.	Υ	N	U			1	2	3	4	5	6	7	
0206	Students do not understand the metric system of measurement.	Y	N	U		SHEET TOTAL	1	2	3	4	5	6	7	
0207	Students do not compute with fractions.	Y	N	U			1	2	3	4	5	6	7	
0208	Students do not compute with decimals.	Υ	N	U			1	2	3	4	5	6	7	
0209	Students do not apply ratios and proportions.	Υ	N	U		0.000	1	2	3	4	5	6	7	
0210	Students do not use percents.	Υ	N	U			1	2	3	4	5	6	7	
0211	Students do not solve word problems.	Υ	N	υ			1	2	3	4	5	6	7	
0212	Students do not use charts, graphs, tables.	Y	N	U		100	1	2	3	4	5	6	7	
0213	Students do not use maps, scale-drawings, and diagrams.	Y	N	U			1	2	3	4	5	6	7	
0214	Students do not know algebra concepts.	Υ	N	U			1	2	3	4	5	6	7	
0215	Students do not solve algebra problems.	Υ	N	U			1	2	3	4	5	6	7	
0216	Students do not construct geometric proofs.	Υ	N	U			1	2	3	4	5	6	7	
0217	Students do not solve geometry problems.	Υ	N	U			1	2	3	4	5	6	7	

District Name  ILLINOIS PROBLEMS INDEX INSTRU  MATHEMATICS	IMEN	IT II	l:		dmi i	Men nistra er	nber	4	Co	n pa	unit	/ Member
☐ Board Member ☐ Perent ☐ Administrator ☐ Community Member ILLINOIS PROBLEMS INDEX INSTRUMENT II: ☐ Teacher (non parent)												
		ISNOT	UNDECIN	GRADE L	CLASSRO	STUDEN	RESEARC	TEST SO	BUDGET	CURRICH	OTHED	
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	Y	2	U		1	2	3	4	5	6	7	

District Name

П	Count 18	District

# ILLINOIS PROBLEMS INDEX INSTRUMENT II: COMMUNICATION SKILLS/LANGUAGE ARTS

_		$\rightarrow$
	Administrator	Community Member
	Teacher	(non perent)
$\Box$	Student	☐ Other

Circle "Y" for "Yes" if the statement represents a current or emerging problem in your school district. Circle "N" for "No" if the statement does not represent a problem. Circle "U" if you are undecided. Add additional problem statements at the end of the list if necessary.

	CODE	DRODI EM CTATEMENT	IS A PROBLEM	IS NOT	UNDECIDED		GRADE LEVEL(S)	CLASSROOM/SCH	STUDENTISH	RESEARCH STUD	TEST SCORES	BUDGET	CURRICUI	OTHER OTHER	
İ	CODE	PROBLEM STATEMENT	-	-	Н	Н	+	$\vdash$	Н	Н	$\vdash$		$\dashv$	$\vdash$	
	0301	Students do not have listening skills.	Y	N.	u			1	2	3	4	5	6	7	
ı	0302	Students are not required to practice listening skills.	Y	N	U			1	2	3	4	5	6	7	
	0303	Students do not have an adequate vocabulary.	Y	N	U			1	2	3	4	5	6	7	
1	0304	Students do not have creative oral expression.	Y	N	U			1	2	3	4	5	6	7	
	0305	Students do not enunciate clearly.	Υ	N	U	022710388		1	2	3	4	5	6	7	
	0306	Students are not required to practice speaking skills.	Υ	N	U			1	2	3	4	5	6	7	
	0307	Students do not express their thoughts orally so others can understand.	Υ	N	U			1	2	3	4	5	6	7	
	0308	Students do not write legibly.	Υ	N	υ			1	2	3	4	5	6	7	
	0309	Students do not use correct punctuation.	Y	N	υ		100	1	2	3	4	5	6	7	
	0310	Students do not use correct grammar.	Y	N	υ		100.00	1	2	3	4	5	6	7	
	0311	Students do not spell correctly.	Υ	N	u			1	2	3	4	5	6	7	
	0312	Students do not express their thoughts in writing so others can understand.	Υ	N	U			1	2	3	4	5	6	7	
	0313	Students do not have creative written expression.	Υ	N	υ			1	2	3	4	5	6	7	
ı	0314	Students are not required to practice writing skills.	Υ	N	υ			1	2	3	4	5	6	7	
	0315	Students are not aware of nonverbal communication techniques.	Υ	N	U			1	2	3	4	5	6	7	
	0316	Students are not aware of techniques used in mass media and advertising.	Υ	N	U			1	2	3	4	5	6	7	
	0317	Students do not communicate through the performing arts, e.g., theatre, music, dance.	Y	N	υ			1	2	3	4	5	6	7	

0	 	Name	

		_	П	T	٦
Count	<b>Y</b> 9	_	Dist	rict	٦
Board Member		Paren	t		
Administrator					190
Teacher		(non p	ærent,	l	

Other

☐ Student

### ILLINOIS PROBLEMS INDEX INSTRUMENT IT: SCIENCE

If you circled "Y", indicate the grade revel(s) If you circled ", circle the numbers below that describe at which the problem occurs: Circle "Y" for "Yes" if the statement represents a current the best evidence you are using to Grades K.3 Grades 4.6 Grades 7.8 or emerging problem in your school district. Circle "N" for "No" Grades 9-12 All Grades Other document that a problem exists if the statement does not represent a problem. Circle "U" if you IALS are undecided. Add additional problem statements at the end of the list if necessary. MATER! CLASSROOM/SCHOOL GRADE LEVEL(S) RESEARCH STU EXPERT OPINIO SCORES CURRICULUM IS A PROBLEM IS NOT A PROBLEM STUDENT(S) UNDECIDED OTHEF TEST CODE PROBLEM STATEMENT 4 5 6 7 2 N 1 3 0501 Students do not know the scientific terminology and U symbols. 6 1 2 3 4 5 7 0502 Students do not know historical aspects of science and N U technology. 3 5 6 7 0503 N 1 2 4 Students do not know the difference between pure and U applied science. 1 2 3 5 6 7 N 4 Students do not know how to use the scientific method in 0504 problem solving. 5 6 N U 1 2 3 4 0505 Students do not know how to reason inductively and deductively. 6 3 4 5 7 N 2 0506 Students do not know fundamental techniques asso-U ciated with scientific inquiry (e.g., observing, classifying, inferring). Υ N 1 2 3 4 5 6 7 U 0507 Students do not have opportunity to use scientific laboratory equipment and procedures. 0508 Students do not understand the purpose of theories or Υ N 2 3 4 5 6 7 scientific hypotheses. 0509 Students do not know how to interpret and report data. N 3 4 5 7 2 6 0510 Students do not know the fundamental principles of biol-N 3 5 2 4 7 U 1 6 ogy (e.g., characteristics of living things). 0511 Students do not know the fundamental principles of N 5 7 U 1 2 3 4 6 physics (e.g., classical mechanics, electricity). 0512 Students do not know the fundamental principles of 4 N 2 3 5 6 7 U 1 chemistry (e.g., atomic and molecular nature of matter).

Dis	 Name

Count	District
Board Member	Parent
Administrator	Community Member
Teacher	(non perent)
Student	☐ Other

ILLINOIS PROBLEMS INDEX INSTRUMENT II: SCIENCE

Circle "Y" for "Yes" if the statement represents a current or emerging problem in your school district. Circle "N" for "No" if the statement does not represent a problem. Circle "U" if you are undecided. Add additional problem statements at the end of the first if necessary.

CODE	PROBLEM STATEMENT	IS A PROBLEM	IS NOT	UNDECIDED	GRADE LEVELICI	CLASSROOM/SCHOOL	STUDENTIONS	RESEARCH STUDIES	TEST SCORES	BUDGET	CURRICULTUR	OTHER MATERIAL
0513	Students do not know the fundamental principles of earth science (e.g., geological formations).	Y	Ŋ	U		1	2	3	4	5	6	7
0514	Students do not evaluate scientific information as presented by the mass media.	Y	N	U		1	2	3	4	5	6	7
0515	Students do not choose to take elective courses in science.	Y	N	U		1	2	3	4	5	6	7
0516	Students, ranging from remedial to gifted, are not provided with curriculum alternatives.	Y	N	U		1	2	3	4	5	6	7
0517	Students are not made aware of career opportunities in science areas.	Y	Z			1	2	3	4	5	6	7

	EMS INDEX INSTRUMENT II: CIAL STUDIES	05.10.18	
Circle "Y" for "Yes" if the statement represents a current or emerging problem in your school district. Circle "N" for "No" if the statement does not represent a problem. Circle "U" if you	If you circled "Y", indicate the grast which the problem occurs:  1 = Grades K-3  4 = Grades 4-6  5 = All C  3  # Grades 7-8  6 = Othe	les 9-12 Grades	If you circled "Y", circle the numbers below that describe the best evidence you are using to document that a problem exists.

emerging prot the statement	"Yes" if the statement represents a current slem in your school district. Circle "N" for "No" does not represent a problem. Circle "U" if you add additional problem statements at the end of ry.		* G = A = O	irade ill Gi Ither	7	7	HOOM	the	bes	ent 1	dend hat	e yo	AATERIALS des neueldo
0005	DDOR! EM CTATEMENT	IS A PROBLE	IS NOT	UNDECIDED		GRADE LEVEL(S)	CLASSROOM/SCHOOL	STUDENTICE	RESEARCH ST	TEST SCORES	BUDGET	CURRICHT	OTHER MATERIALS
1114	PROBLEM STATEMENT  Students do not understand interrelationshing between	\v	N.			2000		2	3		П	6	7
1114	Students do not understand interrelationships between beliefs, values, and behavior.		IN		2818	0.0000000		2	3	4	5	О	
1115	Ethnic and cultural content is not integrated throughout the curriculum.	Y	N	U			1	2	3	4	5	6	7
1116	Courses are not logically sequenced.	Y	N	υ			1	2	3	4	5	6	7
1117	Course objectives do not exist.	Y	2	D				2	3	4	5	6	7