# Investigation into certain aspects of evaluation as they pertain to senior high school music education 

William Robert Swaffield<br>The University of Montana

Follow this and additional works at: https://scholarworks.umt.edu/etd Let us know how access to this document benefits you.

## Recommended Citation

Swaffield, William Robert, "Investigation into certain aspects of evaluation as they pertain to senior high school music education" (1967). Graduate Student Theses, Dissertations, \& Professional Papers. 2742. https://scholarworks.umt.edu/etd/2742

This Thesis is brought to you for free and open access by the Graduate School at ScholarWorks at University of Montana. It has been accepted for inclusion in Graduate Student Theses, Dissertations, \& Professional Papers by an authorized administrator of ScholarWorks at University of Montana. For more information, please contact scholarworks@mso.umt.edu.

# AN INVESTIGATION INTO CERTAIN ASPECTS OF EVALUATION AS THEY PERTATN TO SENTOR HIGH SCHOOL MUSIC EDUCATION 

By
William Robert Swaffield
B.A. University of Seskatchewan, 1956
B.Ed. Uriversity of Alberta, 1958

Presented in partial fulfillment of the requirements for the degree of Master of Music UNIVERSITY OE MONTANA 1967

Approved by:


OCT 131967
Dete

All rights reserved

## INFORMATION TO ALL USERS

The quality of this reproduction is dependent upon the quality of the copy submitted.
In the unlikely event that the author did not send a complete manuscript and there are missing pages, these will be noted. Also, if material had to be removed, a note will indicate the deletion.

UMI EP34847
Published by ProQuest LLC (2012). Copyright in the Dissertation held by the Author.
Microform Edition © ProQuest LLC.
All rights reserved. This work is protected against unauthorized copying under Title 17, United States Code


ProQuest LLC.
789 East Eisenhower Parkway
P.O. Box 1346

Ann Arbor, MI 48106-1346

## ACKNOWLEDGEMENTS

The author wishes co express his appreciation to Dr. Gerald Doty, not only for his encouragement, but also for the extra time which he spent in counsel relative to this paper.

The author also wishes to thank Mr. Laurence Perry and Dr. Lloyd Oakland for their guidance and help.

## TABLE OF CONTENTS

CHAPTER ..... PAGE
I. The Problem ..... 1
Introduction ..... 1
Statement of the Problem. ..... 1
Delimitations of the Study ..... 2
Definitions ..... 2
Basic Assumptions ..... 8
Purpose of the Study ..... 8
Method of Procedure ..... 9
Review of the Ilterature. ..... 10
Brief Historical Background of Evaluation in Ceneral ..... 18
II. The Nature of Evaluation in Mugic Educstion ..... 19
Purposes of Evaluation in Music Educ tion ..... 26
Limitations of Evalustion in Music Education. ..... 29
III. Two General Methods of Evaluation in Music Education. ..... 33
Formal ..... 33
Informal. ..... 34
IV. Two Specific Types of Tests and Testing Procedures ..... 36
Objective ..... 36
Subjective ..... 39
V. Suggested Methods of Eveluation and Specific Types of Tests and Testing Procedures in Three Areas of High School Music Education ..... 43
General ..... 43
Choral. ..... 45
Instrumental ..... 48
Conclusions ..... 50
Recommendations ..... 51
Bibliography ..... 52
Appendixes ..... 56

## Ixtroduction

It is common for high school students in any subject area to wonder: often audibly, how gredes are determined. Unfortunately, this question has long been a notoriously embarrassing one for most music teachers, simply because it requires the existence both of clearly defined standards of comparison and objectives of study.

Hopefully, the situation has improved in recent years. In cases, however, where the teacher is dissatisfied with his evaluative procedure, this study may be of some assistance.

Often the problem springs from inadequate or even nonwexistent instruction in the available materials and techniques of evaluation at the teacher education level. Such a situation should not exist in the face of research that has been conducted and the many tests and testing procedures which have been developed.

Statement of the Problem

1. What is the nature of evaluation as it relates to music education at the high school level?
a. Why should the teacher evaluate his students?
b. What evaluative difficulties arise from the nature of music itself? To what extent does the nature of test construction and grading influence the quality of ex leation
2. What general methods of evaluation are available to the music teacher?
3. What specific types of tests and testing techniques are available to the teacher?
4. Which tests ox testing techniques would be most effective in certain specified areas of mustc study?
a. General music.
b. Choral musie.
c. Instrumental music.

Delimitations of the Study
The study is limited to evaluacion in three areas of seniow high school music education: generals choral, and instrumental music (band or orchestra). It does not include, for instance, suggestions regarding private music study. It is also limited to concepts, materials, and techniques which the author believes to be effective, not necessarily those which are actually being used.

## Definitions

Ability - The power to perform a designated responsive act.
Accuracy - In testing, the quality of pinpointing specifically and dependo ably what the student knows or can do and vice versa.

Achievement - A term which refers to the level of proficiency and umaerstanding which a student has reached as a result of instruction. Adminiscrebion - In testing, term which refers to the method which is used es pesent the cest to the studet.

Appreciation - A term which refers to the degree of understanding and resulting enjoyment which a student possesses of work of art.

Aptitude - The capacity to acquire proficieqeg with trairing.
Aptitude Test - A test which measures thic capacity.
Achievement Test A test that measures the amosnt a pupil has achieved in subject areas or in general schooling.

Capacity - A term which refers to maximm ability with further training, or potential ability.

Comprehension - In testing, the quality of covering the rame of leamings in a particular area being tested.

Comelation Coefficient - This is the most conmoniy used measure of relationo ship between paired facts or of the tendency of two or more variables or attributes to go hand-inohand. It rages in value from 1.00 for perfect negative relationship through 0.00 for some or pure chance to +1.00 for perfect positive relationship.

Criterion - A standard, norm, or judgement used as a basis for quartitstive and qualitative comparison.

Cumlative Record - A collection of irfomation about a student covering a number of school years and including such fectors as academic marks, and information about health, family, interests, school success, aptitwdes. and social adjustment.

Diagnostic Test - A test whose purpose if is to determine student's strengths and weknesses in particular subject areas.

Dusermaticg Poder - The ability of a test item to diferentiate betwero wrividueds gosessing mach of some chewseteristic (skill, knowledge, spticudey from those posesesimg litue of this chacocteristic.

Essay Test - (Also called discussion question test.) A test in which the student is asked to express his urderstandings of a subject. This type of testing device is particularly useful in messuring non-factual factors such as attitudes, interests, creativity, and verbal expression. It takes the forms of extendedresponse, restricted response, definition, and outline.

Evaluation - A judgent as to how close a sexdeat ras come to desired behavior in terms of clearly defined objectives. (Eroader then measurement) Eygluation Progxam - The testing, measueing and appraisal of the growth, gdjustment, and achievement of the learner by means of tests and nontest instruments and techmiques. It involves the formalation of objectives. their definition in tems of pupil behwiow, and the selection or conw struction of valid, reliable, and pactical gpprising instruments.

Formal Evaluation - Methods of judging student progress which are stando ardized and meet acceptable levels of reliability and ralidity. General Music Programs - A course of study in music which attempts to givee the student wide experience in the world of music through the consideration of (1) music history and literature, (2) theory, including sightosinging and keyboard skills, and (3) vocal production.

Informal Evaluation - Judgment of student progress which is based on subo jective observation.

Intelligeace Quotiegt "A mexsure of prantim rate of growth up wo sixw teen years of ger, expressed ss the teio of ments age to chrorological
 192 mothe is used as the chmorologicel age, on the sesumption that, ot
the avarage, mental maturity does not inctease materially with further increases in chronological age.

Item Claxity whe quality of a test which enables the student to under stand exactly what is requited of him.

Nomal Probability Distribution) Curge - A derived curve based on the ssumption that variations from the mear axe by chance. It is belim shaped, and adopted as true because of its repested recurrence in the frequency distributions of sets of mevsurements of human characteristics in psychology and education.

Standard Deviations


Percentiles $\quad 0.1 \quad 0.6 \quad 2 \quad 7 \quad 16 \quad 31 \quad 50 \quad 69 \quad 84 \quad 93 \quad 98 \quad 99.492 .9$
Stanford-Binet

I.Q.'s $\quad$|  | 52 | 68 | 84 | 100 | 116 | 132 | 148 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

Norms s Sores which the ordinary student of certain age or grade mould receive on a test. Norms are arrived at by giving the same test to great many students. Common types are age, grade, and percentile.

Objectivity A term used to describe person's reaction, based upon facts alone, to somethige or someone.

Obseryation - Tha process by which infomstom is received though the five senses.

Oxgy Test $A$ A sest in which the stuhent io gsket to expess aloud his


Percentile - One of the 99 point scores that divide ranked distribution into groups, each of which conteins $1 / 100$ of the scores. If person obtaims a percentile rank of 70 , his standing is segarded as equaling or surpassing 70 per cent of the nommetive group on which the test wes standardized.

Performance Test - A test in which the student displays his ability to perform the skill in which he has received instruction.

Rating Scale - (Also called "check list.") A device which is used to place the performance of a student into Tarious levels of proficiency. Often a series of four or five numbers is used; for example, 0 - 1 - 2 a 3 - 4 where 4 is very good and 0 is ansatisfactory.

Raw Score - A term which refers to a test performance before it is converted to a percentage.

Reliability - The quality of a test which produces similar scores when readministered with no teaching in the intervening period of time and in exactly the same way.

Role - A term used to describe the function of a person or thing in relation to another person or thing.

Scoring - (Also called "grading") An activity which involves the interpretation of testing results in the light of certain definite criteria. Self-Reports - Written accounts by the individual student dealiag with certein topics.

Seniox ${ }^{\text {High Schog }}$ - An educatioret esteblishment in which instruction is nomally giwer in grades ten, chever, and twelve.

Qgem Angws mest (Also csiled objective test") A test in which fgetwar intommion is requized, wewliy in the form of choosing slemnotives.

Sperific types axe (2) completion. (2) recall of single fact. (3) recognition, (4) true fislse, (5) multiplewchoice, and (6) matching. Skewed Curve - A term which refers to s satistical curwe which falls either to the left or right of center because the group which it represents does not, for some reeson, fell into the nomm pattern For exsmple:


Mean
In the diagram, "A represents the nomal curve, while "B and ave represent curwes thet axe shewed to the ieft and right respecively. Skill - A term which denctes the efficient perfomence of mental or physical tasks.

Standard Deviation - A unit of comparative measurement based on the normal curve, and representing the distance from the mesn which in oxe direction includes 34.13 per esnt of the total cases.

Standard Error - A term which represents the relatiwe amonit of inescuracy. depending upon the number of cases involved, in sny statistic. Standardiged Test - A test developed by experts which has beer given to so many students that it bas been possible to determine memsonably accurately how well g typical student of a cextin gge or grade will do in it.

Subiectuizy - A tem whish denotes a pewson" innex pocbion besed on his own porgonelity, feelings gud enpeteree, to sonething ot someone.

Ialent - A relatively high order of pitude. It refers to manividum's susceptibility to an unusually high degree of training.

Validity - The quelity of test which messures whe the test was designed to messure.

Work Sample - An excert from e course of studies which has been chosen for testing purposes. Time limitations require that it not be too long. and adequate representation requires that it not be too brief. A type of performance test.

## Basic Assumptions

The study is based on the following assumptions:

1. It is possible to evaluate many areas of music education accurately and objectively.
2. Some sreas defy objectivity; nevertheless, they can usually be evaluated by means of subjective techniques.
3. It is not necessary for evaluation in music education to be devoid of clearly defined standards of comparison.
4. Information found in books, professional periodicals, academic studies, and interviews with successful teachers is sufficient to give reasonable insights into the problems of evaluation.

Purpose of the Study
Ome of the purposes of this study is to clarify the question of evaluation in music education, particularly as it relates to the matter of grediag strant progrems. It is disconcerting to ioe the mateet como suatig ismores or pushed into the bokground. At least an atcempt shavid be made to exp?owe the materighe and techniques which we wilable;
to decide whether or not ovalution should be part of high school music education: and, if so, to detemine wht forms it showld take.

Searady, it is hoped thet this study will suggest to both expera ienced and prospective high school mulc teachers workable systen for the evaluation not only of student progress but also course objectives and teaching methods.

Thirdly, the study will mequint teachers with the better types of evaluative materials na techniques which are avalmble to them.

## Method of Proceduxe

1. The literatre relsting to the problem was rewiewed for ideas pertinent to the study.
2. The literature included books (psychological and educational) articles from professions periodicals, masters theses and doctoral dissertations.
3. Investigation was made of avallable standerdixed tests by corm sulting the Educationsl Testing Service, 1947 Center St., Berkeley, California, Tests in Print, 1 and the Mental Measurements Fearbooks (from 1940 to 1965). ${ }^{2}$
4. Some ideas were gathered from formal and iraformal intexpiews with auccessful texchers.
$1_{\text {Buros. Oscar Krisen (ed.) Tests in Print, Highland Park, Mew }}$ Jersey: The Eryphon Press 1961.

2 Buros, Oscer Reisen (ed.) Mental Meesuremerts Tearbooks, Highlenc Park, New Jowsey: Thes Wryphr Presa, $1940-1965$.
5. Conclusicus and recommendions have been derived from these sources.

Review of the Literature
M. B. Stanton ${ }^{3}$ of the Eastmen School of Music in Rochester, New York, made a tenoyear investigation of the Seashore Measures of Musical Talents. Over 2,000 entering students were tested, and the results were filed until four years later. It was found that where the sesshore tests had predicted success, teachers ${ }^{\text {® }}$ evaluations confirmed this.

However, A. Richard Roby ${ }^{4}$ found that the correlation between the results of the Seashore tests and college theory grades was low, and even negative. On the other hand, he found correlations as high as .773 between the Aliferis Music Achievement Test and college grades. The Aliferis test, unlike the Seashore, uses musical muitiplewchoice itens from which the student chooses the notation which he hears played on the plano.
P. R. Farnsworth ${ }^{5}$ found that validity coefficients in the Seashore tests, when compared to school grades in music, varied from 0.08 to .45. Reliability was between . 62 and .89.

[^0]Hasel Stanton ${ }^{6}$ showed that I.Q. scores are at least as important in predicting success in mustic as the Seshore tests. In fact, wher she used both the Semshore tests and the Iowe Test of Silent Reading, she wes quite successful, 2s the following statistics show:

| Croup | Number | Pereent of Graduated |
| :--- | :---: | :---: |
| Safe |  |  |
| Probable | 125 | 60 |
| Possible | 143 | 42 |
| Doubtul | 195 | 33 |
| Discouraged | 73 | 23 |
|  | 29 | 17 |

A. M. Jordan ${ }^{7}$ found that in the practical and theoretical mreas, intelligence tests were at least as valuable in predicting success in music education as the Seashore tests. This was not true in sight sing ing, ear training, or dictation.
J. C. Cooley ${ }^{8}$ conducted a study which showed evidence that high intelligence, high reeding ability, and superior performance on the Seashore tests go with musicality. There was no evidence that personality traits are so related.

In the Minnesota Mechanical Abilities Project which was conducted by D. S. Paterson ${ }^{9}$ in 1930 , industrial axts teachers rated shop products of junior high school boys. Reliability was found to be between . 72 and . 76.

[^1]Q. A. Forehead 10 conducted a study in English iterature which involved understending, interpretation, ewaluations and taste.
*. Undersianding. Multiplechoice tests of ten items each were used for testing recognition of literaey devices mathematio material. (Significant results were noticed by the end of the year.)
b. Interpxetation. This involved an essay on my topic regardo ing the story in question. A ressonable degree of insight was expected.
c. Evaluation Techrique. A check list using different jectives was employed; for example, valuable-worthless, fairanfairs pleasant-anpleasant, positivenaegative.
d. Taste. This included (1) facts (about setting, plots and charactex), (2) entertaiment value (to muse or create suspense).
(3) skill of author (1iterary technique), and (4) theme (relewancy to human experience).

The test used reaction questions to literary excerpts. All alter. natives were correct. Students were asked to pick the one they liked best. By the end of the year, a shifting away from "fact" aterratiwes wes observed.

[^2]K. W. Gutsch ${ }^{11}$ comducted study ia which methematics wes combined with sight rewing in widex to detamine whether objective meswurnemt of Ingtrumental music gehiewement could be obtained. Three gtatistical implication espertial to the study wexe:

1. Reqiebilty ix test nad sering.
2. Items were remriced and retested to incuese relisbility.
3. Velldity in thet the test diffexenticed betwern stwants with varying degrees of axperience.

The xesults indicated thet the test reflected both reyt and acoring reliability. Voldity was glso good. Results showed that student exper. ience wes the most influential factor governing perfommnce. Age had relatively little effect upon ability to sightopesd rhythms.
R. J. Colwell and Glenn Rundel1 12 conducted a stwdy to determine whot effect the oddition of (1) the akulele and (2) the plano wowld have upon schievement in muditoryowisml discriminaton tests, hamonic concepturimation, better understanding of uses for factur knowledge, and attitude townd music in general. Thee similar grade seven classes were used: one with ukaleles, one with pianos, and one with vocel approach supplemented with bells and autoharps.

Various standaxdized tests were used in pretesting and postotesting, and the xesult was that the chss uing ukuleles develowed mote favorsble

[^3]attitude towrds musics However, no signigicant velue was found in using ukulele or piam over the vocal approach. In fact, the keyboard and wocal approaches showed more lastiag learning than the ukulele approach when tested a year later.

The "Hawthorne effect ${ }^{\text {Pi }}$ ws very evident in this study. That is, teachers were honored to have a part in the study, and worked hardex to relate objectives to evaluation.
E. L. Rainbow ${ }^{13}$ conducted a study to discover the factors involved in musical aptitude. The following were checked: (1) pitch discrimination, (2) tonal memory, (3) rhythm, (4) musical memory, (5) academic inteligence, (6) school achievement, (7) sex, (8) chronological age, (9) musical achievement, (10) musical training, (11) kome enviroment, (12) interest in music, (13) participation in music by relatives, and (14) socioeconomic background. All but school achievement, sex, and participation in music by relatives were found to have a significant bearing on aptitude. Age had considerable infiuence.
J. H. Fluke ${ }^{14}$ conducted a study in which it was assumed that the quality and extent of the performer's awareness or perception into the inner content of music is a basic constituent of musicality. Accordingly, a test was constructed which measured basic rhythmic, melodic, and harm monic concepts by having students listen to excerpts of music which

[^4]illustrated each of these concepts, and answer thirty multiplemehoice questions on each.

The test was called the Eluke Test im Music Perception. It was administexed to 2,314 high school instrumental and choral students. The reliability coefficient for the test as a whole wis found to be .78, which is satisfactory.

It was found that instrumental students were more perceptive, and hence more musical than choral students.

Colwe 11 and Rundel1 15 constructed a test which consisted of thirty pairs of music excerpts from which the student was asked to choose the one which he considered to be best performed.

It was found that the instrumental and experienced student had better aesthetic judgment.
L. M. Hagen ${ }^{16}$ conducted a questionnaire surwey in which choral teachers were asked to indicate the bearing on their grading of the following factors: attitude, cooperation, effort, enthusiasm, responsibility, attendance, promptness, talent, general musical knowiedge, tests, sightwreading, memorization, privgte lessons, and outside activities. Teachers were also asked (1) whether or not they used a point system in grading, (2) whether or not students were informed as to wht was expected of them for A, B, or $C$ grades, (3) how their charal grades compared with

[^5]academic grades in the school, and (4) whether or not they were satisfied with their present grading system.

This survey indicates (1) that grading in choral music is yery subjective, and is based more on extromusical factors than skill, progress, proficiency, or musicionship; (2) thet respondents who used the point system, where grading points are giwen or deleted according to preo scribed list of positive or negative mctivities, were generally satisfied; (3) that respondents who were dissatisfied usually had no system at all, and were not sure whet to do about it; (4) theit many respondents expresged the desire for more objectivity in ewaluation; (5) that choral grades are generally higher than academic grades, principally becase students who sing are often more intelligent; and (6) chat those respondents who used the quartet system of grading proised it highly. (See Chapter V.)

Edwin Gordon ${ }^{17}$ conducted study which showed no evidence that training improved scores on the Drake Musice Aptitude Test. This seems to suggest that musical aptitude, as messured by this test, is imate. J. Hoffren ${ }^{18}$ conducted study in which arn attempt was made to test expressive phrasing in music. The following factors were considexed: rubsto, smoothness, swiculation, phresing, unity, continuity, dynamics, and dynamic and gogic accentuation. Although validity was not high, the test was moderately successful.

[^6]
#### Abstract

F. W. Pinkerton ${ }^{19}$ conducted study in which methods of choosing instrumental students were investigated. It wes found the commonly used criterif were (1) studert and parent interest; (2) recommendeions of classroom and genexal music ceachers, (3) mental rating, (4) tests of musicality, (5) success in a preainstrument class. (6) physical traits. (7) simple singing mbility, (8) coomdination, (9) scholestic standing, and (10) achievement test results. "nay most evident conciusion of this study is that there is little agreement mong music psychologists. teachers, and supervisors as to methods of selectingo instrmental music students in the public sohools. ${ }^{0 / 20}$

It was recommended that students be selected on the basis of not one, but several citeria.


19pinkerton, Frank W. HThlent Tests and Theix Application to the Public Sehool Instrunentsi Music Program Joumel of Resesreh in Music Education, Vol. XI, Wo, 1 (Spring, 1963)75079.
$20_{\text {TR BE }}=p .78$.

Bref Mistorical Backgound to Evalumeion im Gemerni Whate 1900, teanhers had wery limuted methods for determining how well children were succeeding. 121 completion mad mitiplewhoice tests did mot become common until bout 1910. many stundardiwed mptitude and achievement tests, ws well es intelligence tegts, were ceveloped duxing the $1920^{\circ} \mathrm{s}$, the goldrush ex on standerdieed teste. Since 1940 g cuchtors have used other evaluative techniques such gss mecdotal records, soclow grams, rating scales, participation chotes, come sudies, cumulative records, personal interviews, check sheets, and report cards. One reasor why so many evaluative techmiques have been deweloped mad used in masic education is the conviction mong may educators that musicai talemt is actually composed of many abilities rather than only one them wich assortment of skills found when we survey all varieties of musicel expero fence suggests strongly that many subtslents, rather than aingle allo pervading one, make up musicel success in its browdest sense, 22

[^7]
## CRAPPEER II

The Nature of Evaluation is Music Education

Evaluation in music education is besically meter of observation. The music teacher obsexyes from day to day the reactions of his students to the listening ox mpprecistion program, the progress of his instrum mentrifsts, nad the pocal qualty produced By his chorel classes. In fact, the good music teacher is the one who has learned to obsemw a grat many diferemt chings, wirtually at the same time. These obsexvations must not only be made, but also recorded and converted into menningtul periodic repors of progress for the benefit of student tencher, parent, snd administratox.

What factors must be observed The answex depends entireiy upon the aims and objectwes of the music teacher himelfo Elict W. Eisnet says that evaluation is a judgment of the adequacy of betweror as comparad to set of educstionel objectives. ${ }^{01}$ This quotavion implies that the teacher must (1) be cextain about his objectives, (2) state them ir terms of student behawiox, not teacher behawior, and (3) state them clenely enough that it is possible to fell when they here beem gehiewed. Onexanem ally it may be deemed wise to shift from oxiginal objectives. It may occur to the sensicive tequher, for instance, tho particuls class of student would perhaps peofit from different approgch to the course mgkerial. In such an event, evelugtion would shift its mphasis gecordingly.

[^8]Evaluerion, howewer, is not simply oberwatiom. Although some evaluation can be msde by simple obsexvetion, it is often exqomeous or incomplete. More systematic methods see zecessery. At the some time, the tem "evalwaions is broaden in meaning then the term "messuremert", which implies che use of conventional tests gnd examinetions. Miegsurew ment is the part of evalwation which concerns itself with subjectomater schievement or specific skills and abilities. Evalimeion concerns itself with certain educational objectives and "he appraising of behoviorel and personolity changes which result from the educational program. ${ }^{2}$

What are some to the educations objectives which were refered to in the preceding paragraph? The following represent some exsmples: (1) In singing, the ability to use the foice to express bewuty in song together with srtistic interpretaion. (2) Im choral work, the sbility to use one's vocal skill in conjumetion with others. (3) Ir muic appreciation or the listening progrem, to develop discrimingtion sud taste, to develop sensitivity to design, bslunce, quality, and appropriateness, and to sequire a general knowledge of the development of Westera music (including such factors as music history, style, grest composers and their works, harmony, form, and orchestral instruments). (4) In instrumental music, the ability to express oneself, at least to some degree, on musical instrument. (5) In creative music, some degree of oxigimisty in interpreting wn composing music. (6) In musical scomes,

[^9]the ability to read music, bility to use musical notstion to express musical meaning, and mility to woxk with cextain pheses of music theoxy such as accunt, bars, phreses, scales, chords, staves, key signatures, nud time signatures. (7) In more intangible phases of musiceducetiom, the development of such fictors ss frewon of expession, whymic sense, and ability to function effectively in music geoups or orgemieatuons. ${ }^{10} \mathrm{On} l \mathrm{y}$ when the teacher hss clemxy determined his gom can he select appropriate teachug methods to the exclusion of ixrelevme meterid or texching techniques. ${ }^{103}$

The teacher who has many objectives and many spproaches will haye many means of testing. It is the bslance betwon these fuctors which produces superior results, and perhaps this delicate biance con be achieved only through the teaching experience of the individwh tewer. "Since the purposes for testing and the objectives of instruction very. it is readily apparent that the types of tests used in mesuring achieweo ment must also wary. There is no one best type of test. ${ }^{14}$
ouests axe not alternatives to obsexwtions. At best they mpresent no more then refined snd systematised processes of observetion. Nor mally, tests are based on the "work sample principle. This zample must be truly represemestive, and large enough not to be effected by scoldental factarg. Actully, because of the existence of time Imits, test is

[^10]
 geto e higher score. No single test messures gil of wisy abilit. This is why mexy different samples of perfornmme need to be taken. It is wather liks letting down plpes into the ground at Fwious locations in man effot to acertin which directuon an undergwoud river is taking. Aso. a test pexformace is susceptible to change. Voung people are especisly chargeable. Ey working at skill, for instonce, the student cam inprove his score.
"Assigning maws or grades is one aspect of the aprorisel of stradert progress. ${ }^{17} 7$ The value of this practice may be debatable, yet teachers generally are still required to do it. Moweres, it must be donefairly, and be based upon all objectives, not merely one or two. It is extremely important to point out in this connection that whe these gredes represent must be made perfectly clear. When the stwdent and parent receive a music grade, are they mware that it represemss compsrison betwem the student's performsnce nd that of the rest of the cless, ox betweer kis performance and s standardiaed norm, or between his present pexformace non past performaces:

In order to see how the student is acuelly progressing, some comparisen must be made. Ofter student's performance is compsed with

[^11]that of the rest of the group to which he belongs. If the standud of the groun with whetr his performance is being compred is lazge enough, it is referted to as "nom" Most "standardized" tests mee published complete with noms for the teacher ${ }^{\circ}$ consideration. In teachermade teste, however, the tescher himself must develop his own norms, fe he desires to use them, by giving his test to great many studenta.

Actully, in order to determine real progress, the stadent ${ }^{\circ}$ past and present pexformances must be compared. "IE we whet to kow if on child has gotten tallex it is fruitless to find out if he ly gove swerage in keight. 8 Using an individual comparstive base of this kind siso serves to improve instruction because it provides opporturities to dewect wenkw nesses in performance. In cases where the stadent is below the nowm we may get away with blsming the student; but where no growth oceuts from one week to the next, we are fored to look werg eaxetully gt out methods, materials, ond objectives. This is not to suggest, however, that the studeat shore no tespomsibility st all for lack of growth wet we masic be prepared to do something to try and strengthen his weaker wets. In addition, the soome past basis can be decided upon for eqch stadent, the better. Where there is record of gchievement from preweniow high grades, ewaluation is much esier and more sccurate.

Students shonld be encouraged to ewaluete themselwes in the light of past performences. Much encoutgement can result from this gisworch.

[^12]Students should elso be emepugged to write about theix individual attitudes and interests in muste. Erom such infomnation the teacher may discover the axess of study upon which to conceutwite and how to spprowh them. He may ghac discover significant changes as che schoul year progresses. Since it is genernily gered thet hebest teaching springs from student interest, the student who takes the time gud trouble to ewhnte himself periodically, is bound to make rexonable progress.

Eveluetion in mustc educstion does not differ in ayy way from eval. uation in other greas, sud is essentisi in every classxoom situmion. In fact, since the music program involves a good deal of group metiwity, there is excellent opportunty for group ewnution of activities. Music ${ }^{\text {Prew }}$ Fides the circumstances for the most effective equluation while work is in progress and by those immediately involved. ${ }^{\text {pe } 9}$ While participstixg in group activities, the student is able to compre his pexfomande not ouly with that of other students arown him, but also with his owa past pero fromances. "Music getivities call for the immediate mpelication of principles. The development of skills cakes place in octwl perommence and the development of knowledge and attitudes is na incegral part of this performare. 10

At the conclusion of this chapter it must be clearly maderstood that evslumen in music is iotimately associated with instrwetomel

[^13]objectves and methods. If. for exampe, the teecher is satisfied with instilling into his students mere factul information mbout their listenng progrem, he will sigo be setisfied to evaluate results with a truafolse or multiplewchoice test. The teacher, on the other hosd, who is concexned with helping his students understand some of the more intangible spects of their listening program, such as stmosphere, style, or taste, finds that evaluaton becomes much more of problem. He finds that he must Curn to more "subjective ${ }^{\text {minstruments of testing, which qu bests sre vulw }}$ nerable to comsiderable imacurscy depending upon the persond opinions. attitudes, and background of the examiner. In the following chaptexs I shall try to point out che advantages and disadyantages of both objectiwe and subjective ewalaation techniques, and the respective waues af esoh in various siturtions.

## Pumposes of Evalustion in Music Education

Evelugtion is mean whereby the mashe teacher can messure ke merits of kis objexives. Objectives which canot be mesoured ame worthe Less; concepts which the teacher wines to psesent to his studerts must be cxystal clege in his own mind flust of sll ft he expects to heve wortho While results. If these cancepcs gre cleaw enowgh to be walwated, they are likely to be clesw enong to be understood by the stwdnt. "Evaluetor provides the coly avenve for determining the extent to whick the program is caring for the overgll musical development of all strdents. 11

Evaluation is glso qseful in helpitg the teacher to gppraise his methods of instruetion. If the results of evaluation in any given ares st any particulat time tend to display a tigher discoursging rate of student growth, the tegchex is well justified in looking quite ariticaly 2t the manner in which he is approachixg the matexial. Given thet the objectives which he hes in mind sem to be ressorable, ot have semed satisfactory in the past, it may be that for this particular studert or group of students his point of view or point of departure, for example. is not right. In a cose like this thexe is certsinly nothing wrong wich staring all over ggain and evaluating the results again, perheps in a differeat wy. Once the results remch more nopurging levels, the teacher can sssume thes his methods mon see more in line with the pesent situation.

[^14]Evaluntios should increase motivation. It shoud encourage the student to woek harders sud better his peesent performance not only through comparisor with other scusets or past performences, but also through comprisun with a concept of a realistic level of gepimaion. This conm cept might be developed in student through tha listening program, attendance at live conewts, or throrgh the atudy of more duvaced musicel scores. Motivation $\operatorname{INo}$ deperds unon tice deguee of understanding and zeceptance of the teachex's objectives. Effective evaluation may serwe not only to clarify coneapts and awaen intarest. but may also help to make the student awre of his progress towards these otjectives. In addition, the type of evaluation for which the stedegt preperes detemines in great measure the natue of his work. If, for exmmple, the tencher wants the student to learn concepts which can be svalused by wemn of a truewalse testing instrument, that is one matter; but if, on the other hand, the desired concepts cem be tested only by other, more subjective means, that is quite anothex. The point is that the objectiwes differ in each case, sud so do both the nature of the learming and the means of evaluation.

In addition to those purposes of evalustion which have just beex discussed, there remans that of student guidance. The teacher shoud make ves of some form of eweluation not the least of which should be stancerdiged test especisliy designed for this purpose, to help kim
 (2) tate a copese in instrumental music, (3) taie a coupe in chota rueter (f) teke general music. (5) contaer post high school masic
educations (6) consider music as career. There are standardized aptitude tests which would be useful in conducting such guidance procedures. They are discussed in some detall in Chapter IV, and are listed in Appendix I.

## Limitations of Evaluation in Music Education

In general, the objectives of musie education break down into three basic areas: knowledge, attitudes, and skills. The first deals with objective facts, principles, and concepts. Of these, facts are the essiest to test: objective measuring instruments such as multiple-choice. completion, true-false, and matching tests are accurate and relatively easy to grade. Principles and concepts, wowewer, because they are more difficult to evaluate accurately, must be measured by means of essay questions or problems requiring application of krowledge to specific situations. The second area, attitudes, involves feeliags and emotions, are consequently difficult to teach, and are so difficult to measure that most teachers hesitate even to try. The third area, skills, involyas both neuromusculas lesraing and facility in the application of factuel knowledge. These are also difficult to evaluate.

A single test is severly limited, almost to the point of mesuingo leasness. ". . . There is little hope of proving anything in educaciom with single measures. ${ }^{112}$ The teacher must test his students many times throughout the year, preferably with the aid of a variety of testing in struments, both objective and subjective, standardized snd teacher made. The more often tests are given, the smaller the standard error, and the more dependable, meaningful, and sccurate the evaluation.

The results of testing can be misleading unless the following aspects of tost constructhon ser soken into woont: (1) Mechanical Aspects. The


student should be aware immediately what he is required to do and how he is expected to do it. In order to ensure this attribute, similar items should be grouped together, dipections should be olearly stated, snt the organization of the entire test should be obvious. (2) Validity. The test should set out to evaluate only the objectives of the courses and give the most weight to the more important issues. (3) Reliability. The test should be so comstructed that the results would not vary significgntly in subsequent administrations to the same student (assuming no additions ${ }^{[ }$ learning or practice occurs), or in subsequent gradings by the same teedret. (4) Appropriateness. Each item should be suitable to its objective, as well as to the age and grade level of the student for whom it is interded. (5) Clarity. The student who knows the material won which the tast is based should be able to understand the questions. (6) Discrimicgstog. Test items should rot, in any wy, favor the student who has rot really met the objectives of the course. When pseparing test, the teacher mast constantly be on the lookout for grammatical ox structural clues. oppostunities for guessing, hidden answers elsewhere in the test or obvious items.

So far, we have said little about grading. Fet the manner in which a test is graded can greatly influence the dependability of the resulto Some principles to be considered in this connection are: (1) Grades skoud reficet, as far as possible, the sctusl achievenent of esch sturent,
 not be used for Jisciplinary purposes. (3) Students should be acquinted wth the sodeng syeter and with exch grede agsigned to chem throughout the yesw. (f) there sforld be staff consersus on grading policy.
(5) Grades should not vary substantially from nomal probability curve percentages unless the ciass is unususlly bright of slow, in which cese the curve would be skewed.

Geading is pacticularly difficult in essay-type test items. For instance, whether or not the examiner considers in his grading such extain musical factors as speling, sentence structure, punctuation, gramsr, appearance, and paragraphing, has considerable influence upon the waltity and reliability of the item. Although these things have nothing to do with music education pex se, few would discount their importance in educating the student for life. Moreover, if the music teacher considers the student's capacity for tinglish expression to be a part of his objectives. he is certainly justified in considering this in his evaluation. (See page 40 for specific suggestions regarding essay evaluation.)

In order for grading to be accurate, it must be based upon definite ceiteria. Three possible standards are: (1) the individusl standard, in which the individual student's ability is taken into account, (3) the fixed standard, which is based upon the mastery of subject matcer (In this case, the needs, interests, and abilities of each student are ignoxed, and the standard which is considered to be either satisfactory or unsatisfactory may vary considerably from one teacher to another. In one part of the country the pass mark may be seventy per cent, while in another it may be forty per cent.), and (3) the group standsrd ar pers centile, in which comparisoms are made with the whole group scording to the nomat quobghyity cumy se standerdimed norms.

Finally, one must realise that the distinction between objectivity and subjectivity in music evaluation exists only at the grading stage. Both types of evaluation are subjective at the setting stage. The kinds of questions asked, whecher they be true or false or essay type, are very nuch matter of personal judgment and preference on the part of the examiner. Consequently, grading should be as objective as possible in order to avoid serious loss of accuracy and reliability. This objectivity in grading can be ensured through the use of aids such as standardized norms, the normal probability curve, and other clearly understood standards of comparison such as those referred to in the previous para. graph.

## CHAPTER IIT

## Two General Methods of Eveluation in Music

## Formal

${ }^{9}$ Formal evaluation implies the use of an evaluative tool that is standardized and meets acceptable levels of reliability and validity. Although some musie educators would argue that much in music is so subjectw ive and intangible that it cannot be measured in the same formal manner as other academic school subjects, Daniel Bonade, former principal clariw netist with the National Broadcasting Company Symphony Orchestra, belleves that subjective musical element such as phrasing can be taught and recognized objectively just as well as technique. ${ }^{2}$ (See page 18 of "Review of the Literature".) If this is true, the classroom teacher should be able, at least to some degree, to use fomal evaluative instrum ments to compare student performance with prescribed criteria and group norms in order to arrive at definite scores.

In the past, formal testing in music education has been avoided for the following reasons: (1) Desire to maintain a "fun" atmosphere. (Yet students in other subjects often enjoy their studies in spite of formal testing.) (2) leck of generally accepted geals. (As a reselt. we are not sure what to test for.) (3) A failure of well-known standardized music tests to prove themselves to be elther valid or reliable. frwever:

[^15]this is true mainly in the field of musical aptitude which has not yet been adequately defined. Failure in this area does not necesserily imply failure in other areas). (4) Teachers are oftex unaware of formal meam sures available to them. (5) The tendency towards a more subjective, aesthetic personality make up of most music teachers. Specific information relative to formal, standardized tests in music is to be found in Chapter IV and Appendix I.

## Informal

Many music educators feel that the study of music offers such a wide range of challenging objectives, that some can only be evaluated subjectively and informally, inadequate and inaccurste as this may be. Examples of informal evaluation are (1) casual observation, which is really a general impression, and could be quite wrong. (This method may involve, for example, the formation of impressions regarding care of an instrument, posture, enthusiasm, degree of cooperation, attitude, individ ual practice, general participation, and ability to work with others.) (2) anecdotal records, or brief happenings recorded by the teacher, and (3) timemsampling, which is a recording of student activities during a particular part of the day over a defined period of time. (In order for this device to have any significance, there must be many samplings.)

A rather important means of informal evaluation is the Rating Scale, also knom as the Check List. This is a device by means of which the performance of a student can be placed at various levels of proficieney. octen a acoss of four or fige mumbes is used in which, for example, 5 repesents excellent, 0 represents unsatisfactory, and the digits in between
represert the warious intermediste gradations. This device has advantages in (1) diagnosing stndent strengths no weaknesses, (2) helping students to eqaluate their own progress. and (3) hedping to weport pugress in a meaningful way to perents and administrators.

Still another form of infomal evaluation inwolves the use of the Cumiacive Record. This is collection of information about student which covers his entire public shcool csreer. It is usually kept in the school office or guidance department where it can be contributed to snd checked by all teschers. Normally, it has a face or summary sheet at the beginning which gives data such as psychological test scores (including aptitude, preference, and intelligence quotient), hesith reports, attendance, academic grades, schools attended, age, family and home background, and social adjustment. The rest of the folder hes important anecdotes, teacher's comments, smples of work, results of interwiews, and other information which could be of interest to the educator. Some systems use cards rather than folders.
"Informal evaluation is a necessary part of the total eveluation picture, which must include also formal evaluation, characteriued by objectivity and systematic controls. 93 Subsequent chapters shall discuss the issue of the most effective balance and proportion between formal and infomal evaluation; in other words, betwem objectivity ard sabjectivity.

[^16]Two Specific Types of Tests and Testing Procedures

> Objective

The term "objective test" includes both aptitude and achievement standardized music tests. A standardized test is one which has been given to a sufficiently large number of stadents that it has been possible to determine norms. It has also been carefully checked to ensure validity and reliability. Tests which are published with no information as to their validity or reliability are not recommended. Reputable tests are constructed by experts, and are printed and distributed by test agencies, book publishers, and universities. Appendix I consists of list of recommended standardiad optitude and actiewement tests.
${ }^{n}$ All aptitude tests are, to some degree, achievement tests. An aptitude test may be distinguished from an achievement test only to the extent that the generaliwed function of aptitude is relatively maximieded and specifically taught course-content material is relatively minimised. "l For 11 practical purposes, however, aptitude tests are designed to messure the student ${ }^{9}$ innate musical talent and to predict his future success in music education. On the other hand, achievement tests are designed to meo sure what the student has learned; in order to give the teacher some point of departure for his educotions objectives. Both types are helpful, morew ower, in grouping stumats fow purposes of instrwetion. The Wing Stancardw Hed fests of Muspes Intelligence are designed to measure masionlity and mustert gensutuity, arc are especislly vainable in helpirg to select students sow special insteuction.

[^17]

One of the most widely known and used standardized tests is the Seashore Measures of Musical Telemts. It consists of one series of tests for unselected groups in geners surveys, and second series for masicisns and prospective or actugl music students. Iaterestingly enough, Hagel Stanton corducted series of studies which appear to demonstrate that intelligence quotisnt scores are at least as important in prediceing success in the study of music as the Seashore tests. ${ }^{2}$ The teacher who, for one reason ar another, does not make use of the Seashore or other aptitude tests, might find it of value to try to attract into his program as many students with high intelligence quotients as possible. "General ability is a sign of probable superiority in most types of achievement. ${ }^{3}$ Also, checking by the teacher on student success in other mctivities, particuler ly artistic ones, is well worthwhile. "Published tests mee conventent, but they are not essential. The teacher who understands what might couse learning difficulty can make a sound diagnosis by observing pupil individually."4

The use of aptitude or talent tests depends upon whether or not one's educational philosophy allows that all children should be offered a masical education; or that instruction, particularly at the high school and postwhigh school levels, should be limited to the promising few. One should beax in mind, in any event, that other factors besides

[^18]capacity may determine suseess in musical ectivities; for instence, motivation, level of ixitial and sustared interest and the degree of aspiration. "Few indexaths acquime sufficiewt mastary of the voice or a musical instrument to make music a profession. Als students and adults, however, can acquire a taste for good music and can become intelligent Iistemers."5

The term "objective test" also includes some teachermade tests, principally of the truewfalse, multiplewchoice completion, recall of a single fact, and matching Fariety. These tests are objective in the sense that they can be graded relatively accurately, but at the same time they are limited in respect to the types of educational concepts which they can effectively evalumte. Of these tests, multiplewoice "is the testing method most uniform, reliable, consistent, and impartial thet We have at present."6 An interesting variety of multiplewchoice is a test in which the possible endimgs include variables from best to worst, and the student is required not only to choose the best ending, but also to xate the endings in order of mexit. Although it takes more time and trouble to set, it eliminates guessing, it can be used over and over again with only minor adjustments, and because it is relatively emsy to grede, it is valuable when the teasher is working with large classes. By way of example, this eype of test is an excellent means of measurirg student ${ }^{\circ}$ knowledge of charinet or wiolin fingewirgs. Other

[^19]examples of objective testing are the following: (1) The student looks at a sheet of music, the examiner plays it, and the student marks where the examiner stops. (2) The student looks at sheet of music and indicates on it where the examiner hes played wromg notes, wrong rhythms, or wrong dynamics. (Notice that both (1) and (2) represent means by which the teacher is able to evaluate sight reading ability in an entire group of students.) (3) The student listens to polyphonic music and indicates what the lower voice is doing. (4) The teacher plays piece of music either on the piano or racord player, and asks the students about such matters as form, time signature, instrumentation, mode, name of selection, and composer.

## Subjective

On the other hand, there are many valuable concepts in music education which can be evaluated only through the use of "subjective" testing procedures. Perhaps the most widely used and welloknown form of the subjective test is the "essay type". Although it tends to be less reliable than objective testing techniques, principally because of poor grading procedures, the essay-type test is strong in the areas where objective tests are weak; that is, where the evaluative situation does not lend itself to choice between two alternatives. The essay question gives the student the opportunity to explore many avenues of the subject, and by so doing exhibit to the texcher bis depth of understanding and scope of knowiegge. It slso allows him considerabit freedom of expression and casatuving. "Essay tests are especially helpfug when the teacher
wants to observe how the student organizes his thoughts or how he arrives at conclusions. ${ }^{\text {P8 } 7}$

There are different types of essay questions ronging from the very brief to the very lengthy. The "restricted-response ${ }^{\text {py }}$ or shortwessay question has high relimbility if there are a good number of them in a test, and they can be graded almost as accurately as objective questions. The longer essay question is called "extended"xesponse" or discussion question, and although it allows the student a great deal of freedom of expression, it is difficult to grade reliably. Definition and outline questions are also considered to be essay type.

The matter of grading essay questions is of the utmost importance. In fact, the teacher must not only prepare the questions, but also the answers and the grading scheme. Two good methods of grading are (1) point-score, and (2) sorting. In the first method, the teacher decides on the number of points for each question or part question. He then takes one question and reads all the answers to that question. Einally, he assigns a grade to each test on the basis of established norms, per. centages, or the normal probability curve. In the second method, all the tests are read quickly and placed in a predetermined number of piles representing differeat letter grades. Finally, the papers are reread to check for accuracy. Although both of these methods can be used reliably, the first is prefereble.
$7_{\text {Combach, }}$ Loc.cit., p. 505.

Another type of subjective evaluation is the ord test. This techo nique is father time consming, but it gives an extensive picture of the depth and scope of the student's knowledge. It is also useful as an instructional device, and helpful to students who, for some reason, have difficulty with witten examinations. On the other hang some students mee too nerwous or self*conscious for this type of evalution.

As in the case of the essay test. proper planming is required. A prewplanned check list or rating scale should be used, such as the one which is illustrated in the next chapter in the diseussion of instrumental and vocal evaluation. In spite of careful plamning, howevex, oral testing lacks accuracy and reliability, and shomld be used only to measure factors which cannot be evaluated as effectively in any other way.

A third type of subjective test is the performance test. Like the oral test, it can be used as a learning and guiding device, and may be helpful to students with verbal deficiencies. Its advantage is that it can measure skills and abilities which it is not possible to messure efficiently in any other manner.

Performance tests are capable of measuring two factors; i.e.s (1) skill or technique, and (2) the product or result. The tescher may con sider three approaches to this kind of evsluation: (1) Ideatificgtion. This approach stresses the product or sccompaning factors of the skills. For exsmple, the student may be asked to ldentify the pates of his paxtio culs instrument. The uismdventsge of this aproach, considered in isolew tion, is that the student may do vexy well in this, yet be relatively poox in the technicel aspect of performace. (2) Simulated Conditons.

This approach emphasiwes actual procedures and conditions. For exemple, how would the student use his musicsl skills and knowledge in a practical way through actua participation in msical activities? (3) Work Smple. Here the emphasis is oa skill or technique. The student is required to perform a piece of music.

Once again, proper satting and scoring is of extreme importance. Complete amalysis must be made of the desired performance first of all. Then, once the teacher has decided, in the light of course objectives. which musical factors he expects to see or hem in the pexfomance test. he may make up a check list such as that illustrated in the next chopter or a rating scale using numbers from one to five to represent various levels of general proficiency.

Finally, other subjective methods of evaluation are: (1) asking students to discuss the differences in style and structure between a piece of music which they have just played or heard, and one with which they are already familisx, (2) asking students to identify the style, form, or mood of an unfamiliar piece of music to which they heve just listened, (3) asking students to comment upon the form, ensemble, realism, yocal techmique, source, and musical support of the drama in an excerpt from an opera or operetta, (4) asking students to tell which two of four pieces or excerpts are stylistically similar, and (5) askiag students to prepare original compositions of their own in various styles.

## CHAPTER V

Suggested Methods of Rvaluation and Sperific Types of Tests mad Testing Procedures in rhuee Axeas of Righ School Music Educstion

## Genexal Music

As in the cose of most musical knowledge and metwity, there fs much overdeprixg mong vaious aueas of study. Although oxe ordinerily

 be defined as "the apprehension and exjoyment of the aesthetic import of music. ${ }^{\text {ul }}$ "Apprecistion of the expressive import of music is revenied in the quality of performance, in the wility to make whid wolue judgerts of performance and composition, and, to ax extent, by the degree of absorption a pexson extibits during musical experience. ${ }^{\circ}$ The last part of this quotation might be evaluated by means of simple observation. The other two foctors might be messured by megns of subjective testing futse dures such as those discussed in Chopter TV.

However, it seems to be practically impossible to measure adequately the degree of music apprecistion as such. One can measure ingredients of it, such as listexing habits and preference, by mesws of infomm methods such as casur observetioms interviews, mud questionaires on lisure activities. It is helpful for the tescher to know soch things as (1) how much the stodent sings or plays ortside of school, (2) the rature ot the radio programs ax tecords he selects. (3) his genexal quitude

```
Mremberd, Ioc.ertos p. 390
TTbid. 9.33 L
```

townds good mosic. (4) his intemtams retsurwe to continuiag to be active in musical activities stem lemwing high schood nod (5) the ewtert to which music sexwes sis mu emotond outlee.

Another factor which helps to syeluse the level of music mppreciaw tion is the student ${ }^{\circ}$ ghility to remember medodic line ow rhetmic patwerm
 It can be measured by means of the nuge test of Mrsicsi demory. It can g 180 be messured by teachermade tests in which the tescher plays short melodies ox rhyth patterns, ma skes students to sing or clap each one from memory. Such testing can be graded quite objectrely, olthough it is exsiex to ndminister individuply than collectively, fud it wequires that the examiner be able to play the piano ox some other musicel lustwo ment.

In adwanced high school clusses, the tescher msy consider it of Value to have studerte lemera recognime choris and modes. Students might even find elementsy forms of melodic nad homonic dicterton mu intriguing chsilenge. Nevrally, such sctivity would imply cowsiderable background in music theory. Evelustion of sweh skilis wowd bs nn inteser paxt of the lemxaing process, and would wiso sexve su su indeatom of the student's level of apprecintion.

Some educstors feel that the objectives in Listering sicils conm stitute enjoyment ond desire to listem. others bedieye thet it shoud olso include . . abilicy to alscriminete in such maters ss melody.


$$
3 \text { TbLd. } \mathrm{P} \cdot 327 .
$$

Oregon Tests for Musics Discrimination mesgures the gtudert s sbilty to discrimingte betwer materpiece and its mutimted wersions. Oigingly


Stamardized aptivade tasts awe useful im gemeral music primaxily nt the beginuing of wexm in ordex to (D) oscerman the capaity of each
 genous classes nad (3) help to determine rentstic couse objectwe for each class. Staxdmedied schievenent ests are weful st the begmaing
 the year to help meanue student progress, the merits of cowne otjectwes. and the effectiveness of temching techuiques. All of the temehermede objective testing devices which are discussed in Chsper IV, execet of course, perfommnce tests, nre applicsble wherever courge objectuves worrnnt.

## Chorion Music

In a chor舄 music class, emphesis tends to be wpon the practicol sspect of pocsl group activities; that is, upon ctumlly lenraing how to sing well in a group, learming mepertoife of good chomal music, and performing in pubile st verious occasions duriog the year. Evelustion my take warious forms, both formal and informsl, objectiwe and subjective,

 Qe used fom the samempones ms those outined in the semtom on gemera



Music meading is gemeraly comsidexed to be rather impormme mepect

 Musie readiug is, in fects an gurowvisuel skill which inwolves the obility

 indiwidual basis. Howswer, if it is considered in weverser thet iss ixom the muical sound to the printed pege. Evolustion can be effetively purw formed on mentixe group. Two stendsedieed tegts which could be used to measure reading obidity nre the Knuth schevement Tests in Musie grd the Fgrum Music Notation Test. Tn gddition, the teacher can achisve comprativ results through devices similer to the followire: Copies of melesp exo cerpts are mimeogrophed, given to the students to examine, then plated on the piano. The students may be asked. for iustance, to tell whether ws not the excerpt hes becn pleysed correctly, ard, if not, the nature of the errors made. The ndyantage of this type of test ig thet there ger (2) viety of weys ix which it cmo be adspted to the partoulge meeds of the class.

In group singing, the tescher may make use of informal ewidmelor by observing and recording herhapr by mesns of check iists, anecdots? xecords, or timessmpling such factors as (1) proticipation and cowpere

 qution. Alrwogh these obsemectons cme best be mode on wendwidrat


to cope wth the excessive time faccu. On the othex had it is ditim




 This melection of cowse, must be loug nowh to alow the tescher tine
 check list such as the ome below might be wsed to weard reactions im
 cerd could be mede up for each stwdert st the beghatrg of the yesp
Name: $\quad$ Teleshome:
Class:
Reporting Pergos $\quad 1 \quad 2 \quad 4$

Sight Reading Technique<br>Quelity<br>Blend<br>Projection<br>Dictien<br>Accurgcy<br>Musicisnship<br>Style<br>Attitude





Sept.
Oct.
Nov.
etc.


 evaluated with that in mind. For exmmles mo objectwe method fus been Pound to mensure bentry of tone. surne metist, be he writery paratere on
 the subjective voues which cannot be measured ox minointed sue more
 ve Lues. ${ }^{84}$

## Insteuments Music

Most of the maters discussed in the sector on chorsi mosic aghiy hers. Two possible differemces, howeyer, might be (2) thet the instrunentgilst is woxing with wn instument which is not no persomel es the vorce;
 students and (2) since it is xelatively easy to kemp ixswumexteists busy in theis proctice some while the temene is comductig induldusl



followizg eheck list might be helpful ix the gimixistexing of individunl perfommnce teste sis ix che case of choril testing card ondi be made up fax eqch band ox oschestrs student, the bock of which would cousist of sn atcendmace record.

A more objective mens of instrumental eylwation is foum in the
 every crox is owalumed, and mexact scoring system is given to help increse objectivity. It even includes a sector for the equineion of percusion. Since good tesding sbility presupposes good tecknicel mascery

| Name: | Rentil: |
| :--- | :--- |
| Clsss: | Telephone: |
| Instrument: | Uwiform: |

Reporting Period 1

Sight Reading
Techaique
Quelity
Projection
Accuracy
Intonation
Style
Musicianship
Attitude
this test measures combined techucal mad remdug skils to mearex
degree them precticel performace.

1. In the light of the variety of evaluetwe materinis and procedures which me vialable to the high school muste tescher, mad the bemefits which accompsyy thefr cereful we, evaturton in muric program should not be minimized or ignored.
2. In order for eviumtion to becure and dependalen it shoud be continuous and of considerable variety.
3. Some maic walues canot be evaluated efficiently by mexos of objective measuring instruments.
4. Although objective evaluation is more mecurate thau subjective evio ustion, some musical and educationi wiues can be measured through subw jective means oniy.
5. The proportion of objective to subjective ewalution in may testing program depends upou the educational objectimes of the temeher.
6. There are undoubtedly some music walues which sue so personal thet they cannot really be taught; or evaluated; yet, on the whole, the ceacher should be prepared at least to attempt an evoluation of anything he teaches.
7. Intelligence quotients have been found by investigators to be of considernble value in preaicting success in music education. (see ${ }^{80}$ Review of the Iiterature".)

## Recomendstions fow Furthew Study

1. Am inwestigation of she sctwh ewalustive procedures of successful high school mus 10 teichess.
 nad ewhurtion in the other nets.

2. A futuristic study of evinution in music educetion.
3. A controlled study in which comparison in student progress gnd generay results is made between music cisss where m variety ot
 is ignowed.

## BIBLIOGRAPEY

## Axticles

密ine. $60(A p r i 1,1966), 8-9$.

Clifford, Timothy Fo, ${ }^{\text {Brew That Curwe, }}$ Music Fducetors Journe 52 (November-Deceubex, 1965), 87-90.

Coleman, Henry, MExaminelons and Festiwals, Music in Educatiom, 26 (May 15, 1962), 9. 72.

Colwell, Riched J. "Ewluation: It's Use nud Significance, wheic Educator's Jourxal, $49($ Rebruaw, 1963), 45, 49.

Colwell, Richard. An Inwestigation of Musicn Achievement Among Tocni Students, Vocsi-Instromental Students, mad Instrumental Studerts." Journs of Resegrch in Music Equcstion. Vol. XI. No. 2 (5ad. 1963), $123 \times 130$.

Colwe11, Richard J., mad Runde11, GLenns. "An Evaluation of Achievamut in Auditory-Visual Discrimination Resultixg from Specific Types of Musical Experiences Among Junior High School Students ${ }^{34}$ Jourcsi of Research in Music Educations XII, No. 4 (Wintex, 1965), 239.245.

Cooley, John C. A Study of the Relation Betwea Certoin Mental and Persomelity Treits and Ratings of Musicsl Abilities gourng ge Fesegu Music Education, Fo1. IX, No. 2 (fall, 1961), 108-117.

DePue, Palmer, "Multiple Choice nd The EithermOx.Fallacy, ${ }^{\text {ar }}$ Shool gind Society, 93 (March 6, 1965), 154-156.

Dobbin, John E., "Still Testing, Testing, Testing," The PoToso Megeimes 60 (Janusxy, 1966) \& $4-6$.

Ebel, Robert L. uThe Socisl Comsequences of Educationel Testing " Schood and Society, 92 (November 14, 1964), 331-334.
 20-22.

Fowehnd, Curle A. Problems of Mrasuring Response to Liseretwre, The Clesming Hemse 40, No. 6 (Februevy, 1966), 369.375.





Gordon，Edwim，＂A Stway Dotermin the Effects of Trainimg and Pratuice on Draxe Musical Aptitude Test Scores，Journd of Resegrch in Music Educstios，Wol．TX，No． 1 （Sprimg，1961），64a74．

Gutsch．Kennew 7．Wretwament Music Pewformence：Dme Approwih Towned
 1966）s 377－380．

Higgins，Martiv J．nod Merwin，Jock，C．Mssessing the Progress of Educsionn
 131．13多。

Hoffrerg Jwmes．sthe Construction sad Validatior ot Test of Expessere
 No．2，（Sumex，1964）， $159-164$.
 Pegrbok of the Netiont Society for the Study of Education ITVI． P然空 1 （1958），310－338．

Nationel Associstion of Secondery Sehou Principals Buldetin Xin No．245，（M2世ch， 1959 s， $43-45$ ．

Pinkertom，Frank W．MTglent Tests mad Wheix Applicetiom to the Pubic Sehol Instermentel Moic Progrom， Educstiong Vol．XI，No．1（Spring，1963），75079．

Roby，A．Richerd，＂A Study in the Corvelation of Music wheory Ceshes with The Seashore Messures of Musical Talems nom the Alferis Mulc
 No．2，（Fesi，1962）137－142．

Tarmeld，Vernom W．An Investigation of the Paidity of the Mustest Aqutude
 （Winter，1965），195－206．



Turners Colin．＂Examinetrons Sumwd Test Cowese obgectwes，The PoToso Magreine， 45, No． 5 （December，1964），19－24．

 Resemsely $54, ~ N o .8, ~ R A p r 1,1961$ ， 315317.

Books



 The Dryden Pyess, 1957.

Anmstais Anne. Psychologicel Testing, New York: Macmilian Co. 1954.
Busos, Oscas friser (ed.) Test im Print, Highlund Park, New Jergey: whe Gryerin

- The 1940 Mental Mexsuremewts Yeasoode Highland Tarks New Jexsey: Mental Messurnemis Tesmbork. - The Stith Mental Measurements Yearbook, Aighinad Park, Wew Jersey: The Gxymkow Pwass, 1965.

Chamcey, Henxy nnd Dobin, John E. Testins: Ic ${ }^{\circ}$ PIece in Educetion Toley New York: Hexper and Row, 1963.

Cronbuck. Lee J. Educatiows Psychology, New Toxk: Hercowt. Brace nad wo. 1954.

Educationi Testing Service. Shortcut Stetistics for Teener-Mede Testes Princetons Edreatomi festiog Service, 1960.

Grear, John A. Teacheswhat Tests. New Tork: Howper sra Row, 1963.
 ment gnd Ewnuntion Im the Secondery Schood. New York: Longmos. Greer and Co. 1959.

Jordm, A. M. Messurement in Educotion, New Yorksmeraw Hill, Bok Co. Inco, $1 \overline{953 .}$

Landin, Robert W. An Objective Psychology of Mrsic, New Tork: Romin Press Co. 1953.

Remers, H. H., Rad Gage, N. I. Educationi Messurement and Fy lustiono New York: Haxper and Bros. 1955.

Schoen, Mox. The Psyehology of Mysic, New Tork: Romeld Press Co. 1940.
Sesshore, Cax E The Pgychologu of Music, New Yoxk: Mowemmill Book Cov. Inc. 1938.


 Revisel Edicion. New Hek: Exmper sud Drothers, 1962.
 Bnd Co. 1954.

Thoms, $\mathbb{R}$. Mursey, Individus Difergnces in the Cixssroom, New work: Dawid Mckay Co., Tne., 1965.
 New York: The Macmillam Coos 1964.
 New York: Buresu of Publishers, Teachers Colfege, Coluble Mriversity, 1942.

## Jupublished Msterial

Busch, Brime Richard, "An Explormtory Study of the Mical demringe of University Freshmen Whose Sole Music Educmen in the Senior High School Consisted of Chorel Clesses ${ }^{\text {up }}$ Tupublisked MoM. Thesis. University of Oregon, 1963.

Cowles, Clifton Yolney, "Aesthetic Judgment of Hzh School Music Students, ${ }^{\text {PR }}$ T̈npublished Ph.D. dissertetion, University of Southern Californis, 1963.

Fluke, John Holman, BThe Construetion, Vilfation mnd Stamderdistion of a Test in Music Percaption for High School Perfommee Geuph, " Unpublished PhoD. dissertation, Coloredo Stats College, 1963.

Hagmon, Iawrence M. "A Survey of Choral Music Grading in High Schoris of Five Eundred Students or More in the State of Wernirgtom, ${ }^{33}$ Tuphblished Masters Thesis, University of Montans, $196 \%$

Motycka, Arthur, "A Report on the Resultw of nn Experimental Course of Study in Genersl Music, ${ }^{8 \prime}$ Wpublished Ph.D. dissertation, Mnivarsity of Illinois, 1965.

Reinbow, Edwerd I。 "A Pilot Study to Investigete Conetructs of Musicel Aptitudes," Unpublished Ph.D. dissertation, State lidversity of Iowa, 1963.

White, Adolph Petex. FThe Gonstruction and vildstion of Group west in Music Reading for Intemedinte Grades, "Onpubished PhoD. dissertetions University of Mimnesots. 1963.

## Appendis I

Recommended Stwnderdied Aptitude and Achievement Teste

Alchough these spe considersibember ot standudumed music tests awilables only those which the guthor would recommend for high school use are Ilsted here Anyone wishing specific imommaton about these or other tests should see Tests Mepeint or The Mental Messurements Yeaxboor edited by 0. F. Buras. (See Method of Procedure".

## Part A

## Standardized Aptitude Tests

1. Musical Aptitude Test: Seties
2. Seghore Mesures of Nusics Thures Rewised Editueu.
3. Wige Standadiqed Tests of Musical Irteligence.
4. Musicel Aptituge Profile, By Edwin Goxdon Roughtom Mifulr Co. Bogtory

Becsuse this test has been developed relstively pecertig 196zy, it hed not beex degcribed, at the time of the prepsrmion ot thes papers in The Sixth Mentel Mesqurements Yequbok (1965). Cumequexty, thew Eollows brief description of the test.

Four unique mpects of the test are: (1) It contarm otigicen music examples. (2) Performanes are by professional masumers enty. (3) The violin and celle are the only musieq instrunents usex (4) Je inmpudes prefereace tests. 1
 mustobleppession. The mushal expression gection is divided into thees

[^20]parts: (1) toma imagexy. which tests in the nress of melody ond hamonys (2) rhythm imegexy, which tests tempo and meter, and (3) musicel sensletexty, which tests phrsing. balawe, and style. Custiwity is also gpwenised.

There are seven cestin in 11 , with drections on tepe A multplew choice answer sheet is employed. Norms ree gwisiole for ever grede level.
 ${ }^{9}$. . . the religbility conticient of the tont me mbout no het os those


Phe Muslesl Antituce Profile hss one mayo purose: to get ge sh objective aid in the evgluation of students ${ }^{\circ}$ msicsi mpitude so that the teacker can beter provide for indiwidul needs ma mbilities my
5. Drake Musicg Aptitude Test.

Hent B

Stsudxrdized Achieqnate Tests

1. Beach Music Mest.
2. Kruth Achievement Tests in Music.
3. KweIwsser Tuch viest of Musicel Accomilshment.
4. Wetkirsmernum Perfommmee Scsle: A Strindardwed Achiewement pest for A11 Brad Ingreuments.

Resons fox the omission of other tests from this list we: (l) The




[^21]Some observations regarding the tests which have bect listed ace
 sheets. (2) Although some corn be gdministered from the pisno, most come with records or tapes. (3) Falduty cofficiunts wege from .60 to .87. which axe minimal to suthfatery. (4) Relability ceeffuctentis range from . 64 to . 94 , which are highly setisfactomy.

## Appendix II

The following chmy represents an attirpt indicate graphicily the tests, types of tests mad techniques which sue sugsested for the evaluation of wious educations objective within three specific men of high school music.

Paxt A

## General Music

| Educstions 1 Objective | Objective Nature | Subjective Nature |
| :---: | :---: | :---: |
| History | Berch Music Test, | Essey |
|  | True Fralse (T-F) | Ox. 1 |
|  | completion (C) | Reports (fuitten) |
|  | MuItiple Choice (MC) | (0xil) |
|  | Mmtehing (M) | Short Answer ( $\mathrm{S}-\mathrm{A}$ ) |
| Theory | Berch Music Test | Assix weints |
|  | Mwaw mser Ruch Test |  |
|  | Qf Musics A Acomeligh |  |
|  | ment. |  |
|  | $\overline{T \sim F, C, M-C . M .}$ |  |
| Apprecintion (Listening) | T $\sim$ F, C, M-C, M, | Esmey |
|  | Recognitiom | Oral |
|  |  | ScA |
| Composition |  | Writure |
|  |  | Performixg |
| Form | T-F, G, M C C, M. | Essex |
|  |  | Ors 1 |
|  |  | Assignmentes |
|  |  | Sas |
| Style |  | 1sesy |
|  |  | Orel |
|  |  | Assigments |
|  |  | Repurts (Oril) |
|  |  | Q-s (Wxitten) |


| Deve lopment | Observation |
| :--- | :--- |
| of taste | Orel |
|  | Reports |


|  | Chors Mmeic |  |
| :---: | :---: | :---: |
| Sight Singing |  | Perfommnce Tent <br> - Indiwiduel <br> - Group <br> Obsexwetion |
| Pexforming | Attendance <br> Extwe Activities | O5servation |
| Daily Class Work | Point System <br> - Promptness <br> - Care ol masic <br> - Memoxisation <br> - Attendemce <br> - Section Leaders <br> - Accompanists <br> - Iubrgeian <br> - Robe cuscodieu <br> - Privete Lessons | Point System <br> $\cdots$ Copergion <br> - Behavior <br> - Student Directing <br> - Interest |
| Depelopmert of Musteality |  | Observerow <br> Fewformster Tesu |
| Vocel Technique (and know ledge) |  |  |
|  | Instrumente Musie |  |
| Sight Reading | Watkins-Fgrnum Performsmee Scale Tw $\mathrm{F}_{\mathrm{E}} \mathrm{C}, \mathrm{M} \times \mathrm{C}, \mathrm{M}$ 。 | Pewformexe Test <br> - Individual <br> - Grove <br> Obsexvetiom |
| Fexfurming | Actendrnce <br> Extre Acitivities | Onserwesirn |
| Deily Clsws Woxk | Point System <br> - Peomptress <br> a Cexe of Mousio <br> ( Attemdere <br> - Section Leviers | Pont Systex <br>  <br> - Seheviow <br> - Sucdexat Dresting <br> - Thterest |

- Music Ifbrarian
- Uniform Custodian
- Privete Lessons
- Extrar Prgetice
- Care of Instriment

| Dewe lopment of |  | Obserwation |
| :---: | :---: | :---: |
| Musicality |  | Periommace Teat |
| Instrumentel Technique (and knowledge) | Watkims-igexum <br> Performance Scele <br> $\mathrm{T} \mathrm{E}_{\mathrm{s}} \mathrm{C}, \mathrm{M}-\mathrm{C}, \mathrm{M}$ 。 | Performance Test <br> - Induwidul <br> - Group <br> Obserystion |


[^0]:    ${ }^{3}$ Super, Donald E., and Crites, John O. Apprasing Vocational Fitness, Revised edition, New York: Harper and Brothers, 1962.
    ${ }^{4}$ Roby, A. Richard. "A Study in the Correlation of Music Theory Grades with the Seghore Measures of Musical Talents and the Aliferis Music Achievement Test, ${ }^{\text {it }}$ Joural of Eesearch in Music Educgtion. Vol. X, Wo. 2 (Kw 2 196\%) $13 / 142$.

    5symurch, P. R. "An Historicel. Critical aud Experimental Sewy ot t"e seashoreokwhwasser Test Ratterys" Genetic Psychology Moncge9xh (1431) 9: 291-389.

[^1]:    ${ }^{6}$ Staxton, HazeI. Measurement of Musical Talent: Studies in the Puyehology of Music, Vol. II. New Yorte: University of Iowe Press, 1935.

    7 Jordsn. A. M. Measurement In Education, An Inttoduction. New Yori: Mc Graw- Hi 11, 1953, pp. 288w291.

    8fooley, John C. "A Study of the Relation Between Certein Mental and Personality Traits and Ratings of Musical Abilities" Journ 1 of Research in Music Educgtion Vo1. IX, Nor. 2 (Fall 1961) 108-11\%.

    98upes: op.eit.

[^2]:    DPorehead, Mas lie A. "Problems of Messuring Response to Liter. atwee, The Clegring Fowse Vol. 40, No. 6 (Februery, 1966) 369.375.

[^3]:    
    
    
     Achiewnust in Auditaxy Discuiningtion Resultixg from Specitie Jyges if Musiust Expertences Amomg Junior High Schoel Scudents. "iowrend of
    

[^4]:    13 Rsinbow, Edwerd L. ${ }^{\text {NA }}$ Pilot Study to Investigate Constructs of Mnsical Aptitudes , Unpublisher Ph. D. dissertation, State Umiversity of Iow, 1963.

    14Firake, John Holman, The Construction, Validation and Standarda inetion of west in Music Perception for gigh School Pexformance Groups ${ }^{8}$ Jnpublished Ph.D. dissertations Coloxado State College, 1963.

[^5]:    ${ }^{15}$ GoLweIL smad Ruadi, op.eit.
    16Ggem, Lawrence, M. A Survey of Chotal Music Guging in High Schools of Frye Equmed Stucents or More is the Stge of Washington, Dapublishod masters thesis, University of Montana. 1962.

[^6]:    ${ }^{17}$ Gordor, Edwin. "A Study to Determine the Effects of wriming and Practice ou Droke Musicsl Aptimue Test Scores y Journal of Research in Music Educewom, Wol. IX, No. I (Spring, 1961) 63-74.
    
     Yow. XiPs No. 2 (Scmmer, 1964 ) $159 \times 164$.

[^7]:    21-Thomes, R. Murzay. Judging Student Progress, New York: Iomgmsus, Green axd Co. 1954. P. 11.
     Torix: Dewte Mcksy Co., Luc. $1965, \mathrm{p} .384$.

[^8]:     63 (styenber, 1963) \& 20.

[^9]:    
    
    

[^10]:    Srewking A. David, "Ends and Means in Music Educstion, Music Educatos. Jorres. $53, \mathrm{Na} .7$ (Maseh, 1967 ) 106.
     9.3.
    
    

[^11]:    6Dobbing Joum E. "Still mesting, Desting, Testing " The Bowo Mageding 60 (Jmmodry, 1966). P. 5.
    
    

[^12]:    8evace, loc.elt. p. 21.

[^13]:    9Agtional Association of Secondary Schood Principals BuIletin xut. No. 245 (402.58, 1939), 9.43.
    $10 \operatorname{mbg}$.

[^14]:    Mituomberd, Lso.01C. P. 324.

[^15]:    Colwer, Riched, J. "Evaluetion: Its Use and Significance," Music Edvestor Journel, 49 (Rebrusty, 1963), p. 47.
    ${ }^{216}$ i.,$~ p .49 . ~$

[^16]:    $3_{\text {MOLE }}$ P. 46.

[^17]:    "Folons. Edwin, Mhe Musicul Aptitude Profile," Music quegtore

[^18]:    ${ }^{2}$ Srentow, Hewer, Measuremert of Musical Iglent: Studies in ths Pewhezoge of Music, Vol. II, New Xork: Dmiversity of Iown pese, 1935.
    ${ }^{3}$ genbeck, Lee J. Educationgl Psychology, New work: Harcourt, Buace ard co. 1954 . P. 200.

    4tbid.sp. 176.

[^19]:    Shams: cotsig Sechsi Torgexson, Theodore L; ard Wood, Ermest R
     ative hiver press. 1957 , p. 406.
     Ey Scutety 93 (Mowin 6, 1965), p. 156.

[^20]:    
     (Nater : 1965) , D. 195.

[^21]:    Bordow, 10e.ottos p. 54.
    3 IELC. 5.52.

