

DEPARTMENT OF THE INTERIOR
BUREAU OF EDUCATION

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BIBLIOGRAPHY OF EDUCATIONAL AND
PSYCHOLOGICAL TESTS AND
MEASUREMENTS

Compiled by

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CONTENTS.

	Page.
Letter of transmittal.....	IX
Introduction.....	1
Part I. General.....	2
Part II. References covering particular tests:	
Intelligence tests—	
Army group intelligence examination, alpha.....	8
Army group intelligence examinations, alpha and beta.....	12
Army group intelligence examination, beta.....	12
Binet-Simon test.....	13
Brown University psychological examination.....	14
Chicago group intelligence tests.....	15
Dearborn group intelligence tests.....	15
Detroit first-grade intelligence tests.....	16
Goddard revision of the Binet-Simon tests.....	16
Haggerty intelligence examination.....	16
Herring revision of the Binet-Simon test.....	17
Holley picture completion test for primary grades.....	17
Illinois general intelligence scale (Monroe-Buckingham).....	17
Indiana University intelligence scale, Schedule D.....	18
Kelley completion exercises, alpha and beta.....	19
Kingsbury primary group intelligence test.....	19
Kuhlmann revision of the Binet-Simon test.....	19
Miller mental ability test.....	19
Myers mental measure.....	19
National intelligence test.....	20
Otis group intelligence scale.....	21
Pintner educational survey test.....	23
Pintner nonlanguage mental test.....	24
Pintner mental survey test.....	24
Porteus test for mental deficiency.....	24
Pressey mental survey scale, cross-out tests.....	24
Pressey mental survey test, primer scale.....	25
Pressey mental survey scale, No. 1, Schedule D.....	26
Stanford revision of the Binet-Simon test.....	27
Terman group test of mental ability.....	33
Thorndike intelligence examination for high-school graduates.....	35
Thorndike nonverbal intelligence scale.....	36
Thurstone miscellaneous intelligence test.....	36
Thurstone psychological examination for college freshmen and high-school seniors.....	36 ✓
Trabue-Stockbridge mentimeter.....	36
Whipple group test for grammar grades.....	37
Yerkes-Bridges-Hardwick point scale for measuring mental ability.....	37
Yerkes-Rossy adolescent adult point scale for measuring mental ability.....	38
Intelligence—miscellaneous.....	38
Performance tests.....	40
Psychological tests.....	41
Kent-Rosanoff association test.....	45

Part II. References covering particular tests—Continued.

Educational tests—

Algebra—

	Page.
Dalman algebra hurdles.....	45
Douglass standardized diagnostic test for elementary algebra.....	45
Hotz algebra scales.....	45
Illinois standardized algebra tests.....	46
Monroe standardized research algebra tests.....	46
Rugg-Clark standardized practice exercises in first-year algebra.....	46
Rugg-Clark standardized test in first-year algebra.....	46
Algebra—miscellaneous.....	47

Arithmetic—

Ballou achievement of pupils in addition of fractions.....	47
Boston tests, addition of fractions.....	47
Buckingham scale for problems in arithmetic.....	47
Clapp standard school tests for upper arithmetic.....	47
Cleveland survey arithmetic tests.....	47
Courtis standard practice tests in arithmetic.....	48
Courtis standard research test, Series B.....	48
Hollywood arithmetic scale.....	52
Monroe diagnostic tests in arithmetic.....	52
Monroe standardized reasoning test in arithmetic.....	53
Starch arithmetic tests.....	54
Stone arithmetic tests for the fundamental operations.....	54
Stone standardized reasoning test in arithmetic.....	54
Studebaker practice exercises in arithmetic.....	55
Thompson minimum essentials in arithmetic.....	55
Woody arithmetic scale.....	55
Woody-McCall mixed fundamentals.....	57
Arithmetic—miscellaneous.....	58

Chemistry—

Bell test in first-year chemistry.....	58
Chemistry—miscellaneous.....	58

Composition—

Briggs English form test, alpha.....	58
Harvard-Newton composition scale.....	59
Hillegas scale for measurement of English composition by young people.....	59
Hudelson English composition scale.....	60
Lewis scale for measuring special types of English composition.....	60
Nassau county supplement to the Hillegas scale.....	60
Thorndike extension of the Hillegas scale.....	61
Trabue completion test language scales.....	61
Willing scale for measuring written composition.....	63
Composition—miscellaneous.....	63

Drawing—

Thorndike drawing scale for grades V-VIII.....	64
Drawing—miscellaneous.....	64

English—

Boston test in accurate copying.....	64
Clapp standard school test in correct English.....	64
English—miscellaneous.....	64

Part II. References covering particular tests—Continued.

Educational tests—Continued.

	Page
French—	
Handschin modern language test: Silent reading, test B, French.....	65
Henmon French tests.....	65
French—miscellaneous.....	65
Geography—	
Boston geography test.....	65
Courtis standard supervisory test in geography.....	65
Hahn-Lackey geography scale.....	65
Witham standard geography tests.....	66
Geography—miscellaneous.....	66
Geometry—	
Minnick geometry tests.....	66
Geometry—miscellaneous.....	67
Grammar—	
Gregory language and grammar test.....	67
Starch punctuation scale A.....	67
Starch English grammar tests.....	67
Starch grammatical scale A.....	67
Grammar—miscellaneous.....	67
Handwriting—	
Ayres handwriting scale, Gettysburg edition.....	68
Ayres measuring scale for handwriting, three-slant edition.....	69
Freeman chart for diagnosing faults in handwriting.....	69
Gray score card for the measurement of handwriting.....	69
Holmes penmanship test.....	69
New York City penmanship scale.....	70
Starch handwriting scale.....	70
Thorndike handwriting scale.....	70
Handwriting—miscellaneous.....	71
History—	
Barr diagnostic test in American history.....	71
Bell-McCollum test in history (later revised as Sackett scale in United States history).....	71
Harlan test for information in American history.....	72
Sackett scale in ancient history.....	72
Starch American history test.....	72
Van Wagenen history scale.....	72
History—miscellaneous.....	72
Home economics—	
Murdock scale for measuring certain elements in hand sewing.....	73
Home economics—miscellaneous.....	73
Language—	
Charters diagnostic language and grammar tests.....	73
Noyes language tests.....	74
Latin—	
Brown Latin tests.....	74
Lohr-Latshaw Latin form test.....	74
Henmon Latin tests.....	74
Starch-Watter Latin tests.....	74
Latin—miscellaneous.....	74

Part II. References covering particular tests—Continued.

Educational tests—Continued.

Mathematics—

	Page
Roger sextet for diagnosing mathematical ability.....	75
Mathematics—miscellaneous.....	75

Music—

Seashore musical talent chart.....	75
Seashore measures of musical talent.....	75

Physics—

Starch physics test.....	75
Camp scales for measuring results of physics teaching.....	75
Physics—miscellaneous.....	76

Reading—

Brown silent reading test.....	76
Burgess scale for measuring ability in silent reading.....	76
Courtis research tests in silent reading.....	77
Learborn-Westbrook silent reading tests.....	78
Fordyce scale for measuring achievement in reading.....	78
Gray oral reading test.....	78
Gray silent reading test.....	80
Haggerty reading examination.....	80
Holley sentence vocabulary scale.....	81
Jones scale for teaching and testing elementary reading.....	81
Kansas silent reading test.....	81
Monroe standardized silent reading test.....	83
Pressey first-grade reading vocabulary test.....	86
Starch silent reading test.....	86
Thorndike-McCall reading scale for the understanding of sentences.....	86
Thorndike scale alpha 2 for measuring the understanding of sentences.....	87
Thorndike visual vocabulary scale.....	89
Reading—miscellaneous.....	89

Science—

Hegring tests in scientific thinking.....	90
Science—miscellaneous.....	90

Spanish.....

90

Spelling—

Ayres spelling scale.....	91
Ayres-Starch spelling scale.....	93
Boston minimum spelling lists (Ballou).....	93
Buckingham extension of the Ayres spelling scale.....	93
Buckingham spelling scale.....	94
Iowa dictation exercise and spelling tests (Ashbaugh).....	94
Jones one hundred spelling demons.....	94
Monroe timed sentence spelling tests.....	95
Seven spelling scales for high school.....	95
Starch spelling test.....	95
Spelling—miscellaneous.....	96

Shorthand—

Hoke shorthand tests.....	96
---------------------------	----

Educational tests—miscellaneous.....

96

Occupational tests.....

96

Stenquist mechanical aptitude tests.....	98
--	----

Part II. References covering particular tests—Continued.	
Educational tests—Continued.	
Teachers' rating scale.....	Page. 98
Knight-Franzen trade test for elementary-school teachers.....	99
Score cards for school buildings:	
Strayer-Engelhardt score cards for city school buildings.....	99
Miscellaneous.....	99
Psychological tests—	
Downey will profile test.....	100
Downey will temperament test.....	100
Indiana University group tests for measuring observational learning and accuracy of report.....	100
Porteus social rating scale.....	100
Scale to measure habits of good citizenship.....	100
Pressey X-O tests for investigating the emotions.....	101
Voelker tests on trustworthiness.....	101
Whittier scales for grading home and neighborhood con- ditions.....	101
Tests and scales—miscellaneous.....	101
Part III. References concerning the characteristics and uses of tests:	
Characteristics of tests—	
Objectivity.....	103
Reliability.....	103
Validity.....	106
General.....	109
Limitations of tests.....	111
Derivations of tests.....	112
Standardization and norms.....	116
Uses of tests—	
Classification of pupils for instructional purposes.....	119
Assignment and promotion.....	124
Diagnosis and prognosis.....	127
Improvement of classroom instruction.....	138
Measuring progress.....	141
Vocational and educational guidance.....	144
Surveying school systems.....	147
Modification of the curriculum.....	150
Testing programs.....	151
Measuring teaching.....	153
Rating pupils.....	154
Gaining public support.....	155
Atypical children.....	155
Delinquent.....	155
Gifted.....	156
Sensory defectives.....	157
Subnormal.....	157
Child accounting.....	159
Functions—miscellaneous.....	161
Statistical treatment of test data.....	163
Correlation.....	164
Transmuting of scores.....	169
Achievement quotient.....	170
Accomplishment quotient.....	170
Educational quotient.....	170
Intelligence quotient.....	170

Part III. References concerning the characteristics and uses of tests—Con.	
Uses of tests—Continued.	Page
Tabulation of scores.....	170
Charts and devices.....	171
Part IV. Uses according to types of schools:	
Used in kindergarten.....	173
Used in primary schools.....	173
Used in elementary schools.....	176
Used in rural schools.....	186
Used in junior high schools.....	188
Used in high schools.....	189
Used in normal schools.....	194
Used in colleges and universities.....	194
Used in special schools and classes.....	198
Used in state institutions.....	199
Used in miscellaneous.....	200
Part V. A list of tests:	
Algebra.....	202
Arithmetic.....	202
Biology.....	204
Botany.....	204
Chemistry.....	204
Composition.....	205
Drawing.....	206
English.....	206
Foreign language (general).....	207
French.....	207
Geography.....	207
Geometry.....	208
German.....	208
Grammar and punctuation.....	208
Handwriting.....	209
History.....	210
Intelligence.....	211
Language.....	215
Latin.....	215
Mathematics.....	216
Music.....	216
Physics.....	216
Poetry.....	217
Reading.....	217
Science.....	218
Spanish.....	218
Spelling.....	219
Vocabulary.....	220
Vocational.....	220
Miscellaneous.....	221
Part VI. Supplementary list of recent tests.....	224
Part VII. Periodicals (including bulletin series) cited in this bibliography:	
Periodicals.....	228
Bulletin series.....	229

LETTER OF TRANSMITTAL

DEPARTMENT OF THE INTERIOR,
BUREAU OF EDUCATION,

Washington, May 3, 1924.

SIR: A most significant advance in American education in the past generation has come from the intensive study of the content and processes of the child's mind. The fruition of that study which has been brought most closely to the class teacher and applied most directly to the pupil lies in the intelligence tests that grew out of the investigations of Binet and Simon nearly 20 years ago.

No other subject has been so generally and carefully studied, nor so widely discussed in the meetings of psychologists and practical school men. The literature has grown with the growth of interest, and its development was especially rapid between January 1, 1918, and June 30, 1922; that is, in the period immediately following the introduction of psychological tests into the United States Army.

No comprehensive bibliography covering this period has heretofore been published, though the need of it is great. It has been exceedingly difficult for investigators to organize their studies in this field.

To meet this need as far as may be, I have asked Dr. B. R. Buckingham, director of the bureau of educational research, Ohio State University, to undertake the preparation of a classified list of the publications of this sort issued during that most fruitful period. Doctor Buckingham procured the assistance, first, of Miss Margaret Doherty, and then of Miss Josephine MacLachy when Miss Doherty was obliged to relinquish the work because of illness. The result of their labors is presented herewith. I recommend that it be published as a bulletin of this office. It is the most complete bibliography on this subject which has yet been prepared, and its usefulness to those responsible for the administration and instruction in our schools will be very great.

Respectfully submitted,

JNO. J. TIGERT, *Commissioner.*

The SECRETARY OF THE INTERIOR.

BIBLIOGRAPHY OF EDUCATIONAL AND PSYCHOLOGICAL TESTS AND MEASUREMENTS.

INTRODUCTION.

This bibliography purports to cover the printed material issued in this country concerning intelligence and educational tests during the period from January 1, 1918, to June 30, 1922. To a limited extent foreign publications in English are likewise included, although the compilers of the bibliography have made no special effort to attain completeness in this respect.

It would be presumptuous to affirm that even with respect to printed materials issued in this country the bibliography is exhaustive. It is probably beyond human powers to collect all that has been published pertaining to tests within this period. At every point judgment must play a part. Upward of 300 educational periodicals are issued in the United States, and in addition to these there are many psychological periodicals which carry educational articles. Moreover, publications of a general character not infrequently include in their offerings important, though generally more or less popular, treatments of educational questions. Under these circumstances in the periodical literature alone there is a vast amount of material on tests. Some of it, however, is practically worthless, and more of it is merely repetitious. The inclusion or the exclusion of articles of varying degrees of importance has necessarily rested upon the judgment of the compilers. An agreement with them on the part of all readers is scarcely to be expected.

A word should be said—though not more than a word—on the difficulties which have beset us in bringing out this bibliography. When we were asked to undertake this work no one foresaw the length to which it would run. It was only as the material was studied that the advantage of multiple classification, with the consequent increase in bulk of the published volume, presented itself to us. Had we been satisfied to confine ourselves to a mere listing of educational tests, with occasional references to important articles, our work would have been vastly simplified, and the publication would have appeared long ago.

It has been the purpose of the compilers to make the bibliography as useful to students and to practical school people as possible. To that end the materials have been classified under certain large and important topics. This has necessitated the printing of the same reference more than once—in some instances many times.

The bibliography is divided into six parts, and it is entirely possible for an article or a book to be listed in any or all of the first four of these parts. The first part takes up general matters; the second deals with articles under the heading of the particular tests to which they refer; the third presents materials on the characteristics and uses of tests; and the fourth presents much the same materials as the other parts, but classifies them according to the types of schools in which the tests were used. The fifth part merely gives a list of the tests which appeared during the period to which the bibliography is devoted. Since additional tests have appeared during the time this bibliography has been in preparation, the list has been extended by the inclusion of some of the more important tests issued subsequent to June, 1922. No particular attempt has been made to render this supplementary list complete. Part VI merely gives a list of the periodicals to which reference has been made in the bibliography. The term "periodical" is here to be taken as including monograph series and other publications which appear with some regularity.

With further reference to Part II, the reader is referred to the table of contents, which will show the extent of the subdivision. It is subdivided into a section devoted to intelligence tests and another devoted to educational tests. The latter section is further subdivided according to the school subjects to which the educational tests belong. The final classification of both intelligence and educational tests is the test itself, e. g., "the army group intelligence examination, alpha"; or "the Harvard-Newton composition scale." The term "miscellaneous" in these connections is used as a caption under which are listed articles devoted to a test which appears but once in the literature covered by this bibliography.

No small effort has been made to secure in respect to the tests the correct title and author. Two letters were issued after as complete a list as our facilities permitted had been made up. These letters were concerned with alterations and additions to our list. One of the letters went to people who are in general well informed in the field of tests and the other to authors of particular tests.

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PART III. REFERENCES CONCERNING THE CHARACTERISTICS AND USES OF TESTS.

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(See also Child accounting and Classification of pupils for instructional purposes.)

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DIAGNOSIS AND PROGNOSIS.

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PART V. A LIST OF TESTS.

ALGEBRA.

- Child's Indiana algebra tests.** Devised by H. G. Child. *Reference:* Bulletin of the Extension division, Indiana university, vol. 2, no. 6, Bloomington, Ind., 1918, p. 171-83.
- Coleman's scale for testing ability in algebra.** For secondary schools. Devised by W. H. Coleman. *Published by* University of Nebraska, Lincoln, Nebr.
- Dalman's algebra hurdles revised 1921.** Algebra graded to ability. Calibrated objective tests. Devised by M. A. Dalman. *Published by* Indianapolis public schools, Indianapolis, Ind.
- Douglass standard diagnostic tests for elementary algebra.** Devised by H. R. Douglass. *Published by* Bureau of educational research, University of Oregon, Eugene, Oreg.
- Hotz first-year algebra scales.** Five scales for first year high school. Devised by H. G. Hotz. *Published by* Teachers college, Columbia university, New York City.
- Illinois standardized algebra tests.** For secondary schools. Devised by W. S. Monroe and L. W. Williams. *Published by* Public school publishing company, Bloomington, Ill.
- Los Angeles test in algebra.** *Reference:* Second yearbook of the division of educational research, Board of education, Los Angeles, Calif.
- Monroe's standardized research algebra tests.** For secondary school. Devised by W. S. Monroe. (Out of print.)
- Phillips algebra tests.** Devised by F. M. Phillips. *Reference:* Statistics and education, George Washington university, Washington, D. C.
- Bugg-Clark standardized practices in first-year algebra.** Devised by H. O. Rugg and J. R. Clark. *Published by* University of Chicago bookstore, University of Chicago, Illinois.
- Bugg-Clark standardized tests in first-year algebra.** For secondary schools. Devised by H. O. Rugg and J. R. Clark. *Published by* University of Chicago bookstore, 5802 Ellis avenue, Chicago, Ill.
- Stromquist's algebra test.** For secondary schools. Devised by C. E. Stromquist. *Published by* University of Wyoming, Laramie, Wyo.
- Thorndike's algebra test.** Devised by E. L. Thorndike. *Reference:* Mathematics teacher, March, 1914.
- Thurstone's algebra examination.** For secondary schools and colleges, especially engineering students. Devised by L. L. Thurstone. *Address:* Carnegie institute of technology, Pittsburgh, Pa.
- Thurstone's algebra test.** *See* Thurstone vocational guidance tests. Devised by L. L. Thurstone. *Address:* Carnegie institute of technology, Pittsburgh, Pa.

ARITHMETIC.

- Automatic exercises in arithmetic.** Arleigh. *Published by* San Francisco State normal, Crown publishing company, South Pasadena, Calif.
- Ballou's achievement of pupils in addition of fractions.** Devised by F. W. Ballou. *Reference:* School document no. 3, 1916. Board of education, Boston, Mass.
- Bonser's arithmetic reasoning tests.** Devised by F. G. Bonser. *Address:* Teachers college, Columbia university, New York.
- Boston fraction sheets.** For Grades V, VI, VII, and VIII. Devised by A. W. Kallom and others. *Published by* School committee, 15 Beacon street, Boston, Mass.
- Boston research tests in common fractions.** For Grades VI, VII, and VIII. Devised by A. W. Kallom. *Published by* School committee, 15 Beacon street, Boston, Mass.
- Boston tests.** Addition, subtraction, multiplication, and division. *Reference:* Bulletin no. 7, School document, no. 3, 1916. *Address:* Board of education, Boston, Mass.
- Buckingham's reasoning test.** Devised by B. R. Buckingham. *Reference:* Fifteenth yearbook of the National society for the study of education, Part I, 1916.

- Buckingham's scale for problems in arithmetic.** For Grades III-VIII. Devised by B. R. Buckingham. *Published by* Public school publishing company, Bloomington, Ill.
- Clapp's standard school test for upper arithmetic.** For Grades V-VIII. Devised by F. L. Clapp. *Published by* F. L. Clapp, University of Wisconsin, Madison, Wis.
- Clapp's standard school tests.** The number combinations. For Grades II-VIII. Test A—In single form; Test B—In problems; Test C—Diagnostic problems. Devised by F. L. Clapp. *Published by* F. L. Clapp, University of Wisconsin, Madison, Wis.
- Clark's arithmetic test.** Habituated economy method. Devised by M. G. Clark. *Published by* Laurel book company, Chicago, Ill.
- Cleveland survey arithmetic tests.** For Grades III-VIII. Devised by S. A. Curtis and C. H. Judd. *Address:* S. A. Curtis, 1807 E. Grand Boulevard, Detroit, Mich.
- Courtis standard research tests.** Series A and series B. For elementary schools. Devised by S. A. Courtis. *Address:* S. A. Courtis, 1807 E. Grand Boulevard, Detroit, Mich.
- Courtis standard practice tests in arithmetic.** For Grades IV-VIII. Offers tests for supervisory work and measurement also. Includes the Courtis standard research tests and the Supervisory tests in arithmetic. Devised by S. A. Courtis. *Published by* World book company, Yonkers-on-the-Hudson, N. Y.
- Courtis supervisory tests in arithmetic.** Test A for Grades IV-V; Test B for Grades V-VIII. Devised by S. A. Courtis. *Address:* S. A. Courtis, 1807 E. Grand Boulevard, Detroit, Mich.
- Diagnostic progress scores in arithmetic.** For Grades III-VIII. Devised by F. S. Hoyt and H. E. Peet. *Published by* Houghton Mifflin company, Boston, Mass.
- Digit combinations.** Grades II-VIII. Devised by H. T. Manuel. *Address:* Colorado State normal school, Gunnison, Colo.
- Economy: Fundamentals of arithmetic.** Devised by B. T. Myers, and J. E. Eisenberg. *Published by* Laurel book company, Chicago, Ill.
- Fassett's standardized number tests for elementary schools.** *Published by* Milton Bradley company, Springfield, Mass.
- Guhin's number test.** For Grades III-VIII inclusive. Devised by M. M. Guhin. *Published by* Hubb City school supply company, Aberdeen, S. Dak.
- Hollywood arithmetic test.** Devised by Division of educational research, Los Angeles, Calif. *Reference:* First yearbook of Department of educational research, Los Angeles, Calif., 1918.
- Hoover and Kelly arithmetic cards (practice exercises).** Devised by J. H. Hoover and F. J. Kelly. *Published by* W. H. Wheeler and company, Chicago, Ill.
- Los Angeles arithmetic tests.** For Grades III-VI. Devised by A. H. Sutherland. *Published by* Department of psychology and educational research, 419 S. Olive street, Los Angeles, Calif.
- Lunceford's diagnostic number test.** Grades I, II, and III. Devised by A. E. Lunceford. *Address:* Kansas State normal school, Emporia, Kans.
- Maxson's practical self-keyed fundamental number work.** *Published by* J. L. Hammett company, Cambridge, Mass.
- Monroe's diagnostic tests in arithmetic.** Devised by W. S. Monroe. *Published by* Public school publishing company, Bloomington, Ill.
- Monroe's standardized general survey scale in arithmetic.** For Grades III-VIII. Devised by W. S. Monroe. *Published by* Public school publishing company, Bloomington, Ill.
- Monroe's standardized reasoning test in arithmetic.** For elementary schools. Devised by W. S. Monroe. *Published by* Public school publishing company, Bloomington, Ill.
- Number fact drill.** For Grade II. Devised by M. L. Kaufman. *Published by* M. L. Kaufman, Logansport, Ind.
- Otis arithmetic reasoning test.** Devised by A. S. Otis. *Published by* World book company, Yonkers-on-the-Hudson, N. Y.
- Pittsburgh arithmetic scale.** Devised by J. F. Guy. *Published by* Department of research and measurement, Board of education, Pittsburgh, Pa.
- Practice exercises for accuracy and speed in the fundamentals of arithmetic.** Devised by R. Schorling and J. R. Clark. *Published by* Gazette press, Yonkers-on-the-Hudson, N. Y.

- Progress tests in arithmetic.** Three different tests for Grades I-VIII. Devised by H. E. Peet and W. F. Dearborn. *Published by* Houghton Mifflin company, Chicago, Ill.
- Research tests in arithmetic.** Series B. *Address:* Kansas State normal school, Emporia, Kans.
- Rice's reasoning tests.** Devised by J. M. Rice. *Reference:* Rice's scientific management in education. G. G. Harrap and company, London, Eng., or the Forum, vol. 34, October-December, 1902.
- Starch arithmetic tests.** For Grades III-VIII. Devised by Daniel Starch. *Published by* The University cooperative company, 504 State street, Madison, Wis.
- Stone's arithmetic test for the fundamental operations.** Devised by C. R. Stone. Out of print and replaced by Curtis series B.
- Stone's standardized reasoning tests in arithmetic.** For elementary schools. Devised by C. R. Stone. *Published by* Teachers college, Columbia university, New York City.
- Studebaker's economy practice exercises in arithmetic.** For Grades IV-VIII. Devised by J. W. Studebaker. *Published by* Scott, Foresman and company, Chicago, Ill.
- Theisen-Woody parallel arithmetic test.** Addition, subtraction, multiplication, and division. For Grades V-VIII. Devised by W. W. Theisen and Clifford Woody. *Published by* The Parker company, Madison, Wis.
- Thompson's minimum essentials in arithmetic.** For Grades I-VIII. Devised by T. C. Thompson. *Published by* Ginn and company, Chicago, Ill.
- Thurstone's arithmetic test.** See Thurstone Vocational guidance tests. Devised by L. L. Thurstone. *Address:* Carnegie institute of technology, Pittsburgh, Pa.
- Washburne's column addition test.** For Grades III-VIII. Devised by C. W. Washburne. *Published by* World book Company, Yonkers-on-Hudson, N. Y.
- Wildeman's practice tests in common fractions.** Devised by Edward Wildeman. *Prepared by* The Plymouth press, 6749 Wentworth avenue, Chicago, Ill.
- Wisconsin supervisory tests in arithmetic.** For elementary schools. Devised by W. J. Osburn. *Published by* Eau Claire book and stationery, Eau Claire, Wis.
- Witham's standard arithmetic tests.** For Grades IV-IX. Devised by E. C. Witham. *Published by* J. L. Hammett company, Cambridge, Mass.
- Woody's arithmetic scale.** Two series for Grades II-VIII. Two forms series B. Devised by Clifford Woody. *Published by* Teachers college, Columbia university, New York City.
- Woody-McCall mixed fundamentals.** Forms I and III. For Grades III to VIII. Devised by Clifford Woody and W. A. McCall. *Published by* Teachers college, Columbia university, New York City.

BIOLOGY.

- Grier's range of information: Test in biology.** *Reference:* Journal of educational psychology, 9: 210-16, 388-92, April, September, 1917.

-BOTANY.

- Caldwell's science tests.** Botany. Devised by O. W. Caldwell. *Reference:* The Gary public schools: Science teaching, General education board, 1919, New York City. p. 29-43.

CHEMISTRY.

- Bell's test in first-year chemistry.** *Reference:* Journal of educational psychology, 9: 199-209, April, 1918.
- Hayes's chemistry tests.** Devised by Seth Hayes. *Address:* Board of education, Cleveland, Ohio.
- Jones's union science tests: Chemistry for secondary schools.** Devised by F. T. Jones. *Address:* 10109 Wilbur ave., Cleveland, Ohio.
- New types of high school chemistry tests for instructional purposes.** Devised by E. R. Glenn and L. E. Welton. *Address:* Teachers college publication, New York.

- Powers's tests for general chemistry.** Forms A and B. For secondary schools. 1922. Devised by S. R. Powers. Published by World book company, Yonkers-on-the-Hudson, N. Y.
- Rivett's chemistry test on symbols of elements.** Devised by B. J. Rivett. Address: 6300 Grand River, Detroit, Mich.
- Rivett's time limit tests in chemistry.** Six tests for Grades XI and XII. Devised by B. J. Rivett. Address: 6300 Grand River, Detroit, Mich.
- Trial test in general chemistry.** Forms A and B. 1922. (In preparation.) Devised by H. L. Gerry. Address: Graduate school of education, Harvard university, Cambridge, Mass.
- Webb's preliminary tests in chemistry.** For beginning classes in chemistry. Devised by H. A. Webb. Published by George Peabody college for teachers, Nashville, Tenn. (Out of print.)

COMPOSITION.

(See also English Grammar and Punctuation, and Language.)

- Courtis composition samples of known value, for training students in the use of a scale.** Sample C. Devised by S. A. Courtis. Address: S. A. Courtis, 1807 E. Grand Boulevard, Detroit, Mich.
- Courtis standard research tests in English composition.** For elementary and secondary schools. Devised by S. A. Courtis. Address: S. A. Courtis, 1807 E. Grand Boulevard, Detroit, Mich.
- Determining the achievement of pupils in letter writing.** For elementary schools. Devised by H. M. Barthelmess. Address: Board of Education, Boston, Mass. (School document no. 6.)
- Harvard-Newton composition scale.** For elementary and secondary schools. Devised by F. W. Ballou. Address: Harvard university press, Cambridge, Mass.
- Hillegas' scale for measurement of English composition by young people.** For elementary schools. Devised by M. B. Hillegas. Published by Bureau of publications, Teachers college, Columbia university, New York City.
- Hudelson's English' composition scale.** For any grade. Devised by Earl Hudelson. Published by World book company, Yonkers-on-the-Hudson, N. Y.
- Lewis English composition scales.** For Grades III-VIII. Devised by E. E. Lewis. Published by World book company, Yonkers-on-the-Hudson, N. Y.
- Lewis scales for measuring special types of English composition.** For Grades III-XII. Devised by E. E. Lewis. Published by World book company, Yonkers-on-the-Hudson, N. Y.
- Measurement of eighth-grade composition.** For Grade VIII. Devised by W. E. Stark. Reference: School and society, 2: 208-16, August 7, 1915.
- Nassau county supplement to the Hillegas scale for elementary schools.** Devised by M. R. Trabue. Published by Public school publishing company, Bloomington, Ill.
- Rice's English composition scale.** Devised by J. M. Rice. (Out of print.)
- Scale for English composition.** For Grades IV-VIII. Devised by C. F. Towne. Address: 265 Delaware Ave. Buffalo, N. Y.
- Scale for measuring the general merit of English composition in sixth grade.** Devised by F. S. Breed and F. W. Frostic. Reference: Elementary school journal, 17: 307-26, January, 1917.
- Scales for the measurement of English composition.** Devised by Providence public schools.
- Thorndike's English composition.** One hundred fifty specimens arranged for use in psychological and educational experiments. Devised by E. L. Thorndike. Address: Teachers college, Columbia university, New York City.
- Thorndike's extension of the Hillegas scale for the measurement of quality in English composition by young people.** Devised by E. L. Thorndike. Address: Teachers college, Columbia university, New York City.
- Topeka scale for measurement of composition in elementary and secondary schools.** 1920 edition. Devised by C. S. Wolfe. Address: C. S. Wolfe, High school, Topeka, Kans.

Willing's scale for measuring written composition. For elementary and secondary schools. Devised by Matthew Willing. *Published by Public school publishing company, Bloomington, Ill.*

DRAWING.

Detroit free-hand lettering scale. (Experimental edition.) Prepared by Department of instruction. Teacher training and research. *Published by Board of education, Detroit, Mich.*

Drawing completion test. Devised by Rudolph Pintner and H. A. Toops. *Reference: Journal of applied psychology, vol. 2, June, 1918.*

Kepler lettering scale. *Address: Board of education, Detroit public schools, Detroit, Mich.*

Kline-Carey measuring scale for free-hand drawing. Part I—Representation. Prepared by E. F. Buchner. *Published by Johns Hopkins Press, Baltimore, Md.*

Lettering test. Devised by L. L. Thurstone. *Published by Berry & company, Chicago, Ill.*

Manuel's drawing scale. Devised by H. T. Manuel. *Published by Colorado State normal school, Gunnison, Colo.*

Bugg's scale for measuring free-hand lettering for use in secondary schools and colleges. Devised by H. O. Rugg. *Reference: Journal of educational psychology, 6: 25-42, January, 1915.*

Scale for judging kindergarten drawing. Devised by Florence Williams. *Published by Department of art education. School of education, University of Chicago, Chicago, Ill.*

Spink's grading chart for mechanical drawing. For Grades VII-XII. Devised by P. M. Spink. *Published by P. M. Spink, Faribault, Minn.*

Thorndike's drawing scale. For Grades V-VIII. Devised by E. L. Thorndike. *Published by Teachers college, Columbia university, New York City.*

Whitford's tests for any grade. Test 1—Appreciation of the quality of art. Test 2—Ability to draw. Devised by A. E. Whitford. *Published by Prang company, Chicago, Ill.*

ENGLISH.

(See also Language, Grammar, and Composition.)

Boston test in accurate copying. *Address: Department of educational investigation and measurement, Board of education, Boston, Mass. (Bulletin no. 6.)*

Briggs's English form test, Alpha and Beta. For elementary and secondary schools. Devised by T. H. Briggs. *Address: Teachers college, Columbia university, New York City.*

Charters's diagnostic language tests. For Grades III-VIII. Devised by W. W. Charters. *Published by Public school publishing company, Bloomington, Ill.*

Cross English test. For high-school and college students. Devised by E. A. Cross. *Published by World book company, Yonkers-on-the-Hudson, N. Y.*

Greene's organization test. For elementary and secondary schools. Devised by H. A. Greene. *Address: S. A. Curtis, 1807 E. Grand Boulevard, Detroit, Mich.*

Kelley's completion exercises, Alpha and Beta. For Grades II-XII. (The Trabue adapted to individual testing.) Devised by T. L. Kelley. *Published by Bureau of publications, Teachers college, Columbia university, New York City.*

Purdue English test. Forms 1, 2 and 3. For high school and college. Devised by G. C. Brandenburg. *Address: Purdue university, Lafayette, Ind.*

Thompson's minimum essentials in language. Practice exercises with research tests. For Grades III-VIII. Devised by T. C. Thompson. *Published by Ginn and company, Boston, Mass.*

Trabue's completion test language scales. Different scales for elementary and for high schools. Devised by M. R. Trabue. *Published by Public school publishing company, Bloomington, Ill.*

Wilson's language error test. For Grades III-XII. Devised by G. M. Wilson. *Published by World book company, Yonkers-on-the-Hudson, N. Y.*

FOREIGN LANGUAGE (GENERAL).

- Handschin predetermination tests.** For secondary schools. Devised by C. H. Handschin. *Address:* U. S. Bureau of education, Washington, D. C.
- Wilkins's prognosis test in modern languages.** For beginners in secondary schools or colleges. Devised by L. A. Wilkins. *Published by* World book company, Yonkers-on-the-Hudson, N. Y.

FRENCH.

- Handschin modern language tests.** Comprehension and grammar test A, French. Devised by C. H. Handschin. *Published by* World book company, Yonkers-on-the-Hudson, N. Y.
- Silent reading tests A and B, French. For secondary schools and colleges. Devised by C. H. Handschin. *Published by* World book company, Yonkers-on-the-Hudson, N. Y.
- Henmon French tests.** For secondary schools. Devised by V. A. C. Henmon. *Published by* World book company, Yonkers-on-the-Hudson, N. Y.
- Meras-Roth-Wood French scale for junior high school.** *Address:* B. D. Wood, Teachers college, Columbia university, New York.
- Starch's French reading and vocabulary tests.** Two different tests for secondary schools. Devised by Daniel Starch. *Published by* University cooperative company, 504 State street, Madison, Wis.

GEOGRAPHY.

- Boston geography tests: United States and Europe.** For Grade VIII. Devised by L. O. Packard. *Address:* Boston normal school, Boston, Mass.
- Boston research tests in geography.** For Grades V, VI, VII, VIII. Devised by H. M. Barthelme. *Address:* School committee rooms, Boston, Mass.
- Boston research tests in geography, true-false.** For Grade VIII. Devised by A. W. Kallom. *Address:* School committee rooms, Boston, Mass.
- Buckingham's geography test.** Devised by B. R. Buckingham. *Reference:* Buckingham's survey of the Gary and prevocational schools of New York City. Seventeenth yearbook of the city superintendent of schools, 1914-15, New York City.
- Courtis' standard supervisory test in geography.** For elementary schools. Test A, Grades V-B to VI-A; Test B, Grades IV-A to VII-A. Devised by S. A. Courtis. *Address:* 1807 E. Grand Blvd., Detroit, Mich.
- Cram's geography test.** Devised by F. H. Cram. *Published by* Extension division, State teachers' college, Cedar Falls, Iowa.
- Gregory-Spencer geography tests.** For Grades VI, VII, and VIII. Devised by C. A. Gregory and P. L. Spencer. *Address:* Bureau of educational research, University of Oregon, Eugene, Oreg.
- Hahn-Lackey scale for measuring ability of children in geography.** For Grades IV through VIII. Devised by H. H. Hahn and E. E. Lackey. *Published by* E. E. Lackey, Wayne state normal school, Wayne Nebr.
- Iowa geography test.** Parts I and II. *Address:* Extension division, Iowa State teachers college, Cedar Falls, Iowa. (Micrographed.)
- Los Angeles geography tests.** For Grades VI-A to VIII-A. Devised by Division of educational research, Public schools, Los Angeles, Calif.
- Map test of Canada.** For Grades VI, VII, and VIII. Devised by J. W. McGill. *Address:* School college of education, Toronto, Canada.
- New York standard geography tests.** Series A, 1922. Devised by G. A. Nifenecker. *Address:* Bureau of reference, research and statistics, Board of education, New York City.
- Posey-Van Wagenen geography scales.** Division 1 (information and thought questions, Grades V and VI); division 2 (information and thought questions, Grades VII and VIII). 1921. Devised by C. J. Posey and M. J. Van Wagenen. *Published by* Public school publishing company, Bloomington, Ill.
- Starch's geography test.** Series A. For elementary schools. Devised by Daniel Starch. *Published by* University cooperative company, 504 State street, Madison, Wis.
- Thompson's minimum essentials in geography.** Practice exercises designed as teaching aids. Devised by T. C. Thompson. *Published by* Ginn and co., Chicago, Ill.

- Whittier geography scale A.** For Grades IV to VIII. Devised by J. Harold Williams. *Published by Whittier state school, Whittier, Calif.*
- Witham's standard geography tests.** For Grades IV through high school. Devised by E. C. Witham. *Published by J. L. Hammett Co., Kendall square, Cambridge, Mass.*

GEOMETRY.

- Irwin's tests in mental manipulations of space relations.** For secondary schools. Devised by H. N. Irwin. *Reference: School review, 26: 600-5, 654-70, 759-72, October, November, December, 1918.*
- Minnick's geometry tests.** For secondary schools. Devised by J. H. Minnick. *Published by University of Pennsylvania, Philadelphia, Pa.*
- Starch's geometry test.** For secondary schools. Devised by Daniel Starch. *Published by University cooperative co., 504 State street, Madison, Wis.*
- Stockard and Bell geometry tests.** For secondary schools. *Reference: Journal of educational psychology, 7: 567-80, December, 1916.*
- Test in plane geometry.** Devised by Raleigh Schorling. *Address: Lincoln school, Teachers college, Columbia, university, New York City.*
- Thurstone's constructive geometry test.** For secondary schools and colleges, especially for engineering students. Devised by L. L. Thurstone. *Published by World book company, Yonkers-on-the-Hudson, N. Y.*
- Thurstone's geometry test.** See Thurstone vocational guidance tests. Devised by L. L. Thurstone. *Address: Carnegie institute of technology, Pittsburgh, Pa.*

GERMAN.

- Whipple's German vocabulary test.** For graduate university students. Devised by G. M. Whipple. *Published by University of Michigan, Ann Arbor, Mich.*

GRAMMAR AND PUNCTUATION.

(See also Composition, English, and Language.)

- Buckingham's grammar test.** Devised by B. R. Buckingham. *Reference: Survey of Gary schools and prevocational schools of New York City. Seventeenth yearbook of the city superintendent of schools, 1914-15, New York City.*
- Charters's diagnostic language and grammar tests.** Verbs, pronouns, miscellaneous. For Grades VII-VIII. Devised by W. W. Charters. *Published by Public school publishing co., Bloomington, Ill.*
- Clapp's standard school tests in correct English.** For Grades V-VIII. Devised by F. L. Clapp. *Address: F. L. Clapp, University of Wisconsin, Madison, Wis.*
- Clemens's grammar test.** For secondary schools and colleges. Devised by A. H. Clemens. *Address: A. H. Clemens, High school, Rochester, Minn.*
- Clemens's punctuation tests.** For secondary schools and colleges. Devised by A. H. Clemens. *Address: A. H. Clemens, High school, Rochester, Minn.*
- Gregory language and grammar test.** For Grades III-VIII. Devised by C. A. Gregory. *Reference: Gregory, C. A., The efficiency of Oregon school children in the tool subjects as shown by standard tests, p. 28-33, 50. (University of Oregon publication, vol. 1, no. 1, 1919.)*
- Information test in English grammar.** Series A to J. Devised by B. R. Buckingham. (Out of print.)
- Kirby's grammar test.** Form 1. For Grades VII-XII. Devised by T. J. Kirby. *Address: T. J. Kirby, State university of Iowa, Iowa City*
- Punctuation scale for use in Iowa.** (Mimeographed.) Devised by F. D. Cram. *Address: F. D. Cram, Iowa state teachers' college, Cedar Falls, Iowa. (Not standardized.)*
- Starch's English grammar tests.** Three tests for Grades VII-XII. Devised by Daniel Starch. *Published by University cooperative company, 504 State street, Madison, Wis.*
- Starch's grammatical scale A.** For grades V-XII. Devised by Daniel Starch. *Published by University cooperative company, 504 State street, Madison, Wis.*
- Starch's punctuation scale A.** For Grades V-XII. Devised by Daniel Starch. *Published by University cooperative company, 504 State street, Madison, Wis.*
- Thompson's research tests.** Devised by T. E. Thompson. *Address: Monrovia, Calif.*

HANDWRITING.

- Ayres's handwriting scale.** Gettysburg edition. For elementary schools. (1917.) Devised by L. P. Ayres. *Published by* Russell Sage foundation, New York City.
- Ayres's handwriting scale for school children.** For elementary schools. Devised by L. P. Ayres. *Published by* Russell Sage foundation, New York City.
- Ayres's measuring scale for handwriting.** Three slant edition. For elementary schools. (1912.) Devised by L. P. Ayres. *Published by* Russell Sage foundation, New York City.
- Ayres's scale for measuring the handwriting of adults.** For secondary schools and colleges. (1914.) Devised by L. P. Ayres. *Published by* Russell Sage foundation, New York City.
- Cleveland free choice test.** Devised by S. A. Curtis. *Reference:* The Gary public schools; measurement of classroom products. New York, General education board, 1920.
- Curtis's standard practice tests in handwriting.** For elementary schools. Includes standard research tests in writing and standard supervisory tests in writing. Devised by S. A. Curtis and L. A. Shaw. *Published by* World book company, Yonkers-on-the-Hudson, N. Y.
- Curtis's standard research tests in writing.** For elementary schools. Devised by S. A. Curtis. *Address:* S. A. Curtis, 1807 E. Grand Boulevard, Detroit, Mich.
- Curtis's standard supervisory tests in writing.** For elementary schools. Devised by S. A. Curtis. *Address:* S. A. Curtis, 1807 E. Grand Boulevard, Detroit, Mich.
- Detroit performance scale to measure ability to score handwriting (Shaw-Curtis).** For elementary schools. Devised by C. A. Shaw and S. A. Curtis. *Address:* S. A. Curtis, 1807 E. Grand Boulevard, Detroit, Mich.
- Economy: Handwriting scale.** For Grades III-VIII. *Published by* Laurel book company, Chicago, Ill.
- Fordyce's directions for measuring the quality and speed in handwriting.** For Grades III-IX. Devised by Charles Fordyce. *Address:* Charles Fordyce, University of Nebraska, Lincoln, Nebr.
- Frasier's writing scale.** For elementary schools. Devised by G. W. Frasier. *Published by* State normal school, Cheney, Wash.
- Freeman's chart for diagnosing faults in handwriting.** For elementary schools. Devised by F. N. Freeman. *Published by* Houghton Mifflin company, N. Y.
- Gray's score card for the measurement of handwriting.** For elementary schools. Devised by C. T. Gray. *Published by* Public school publishing company, Bloomington, Ill.
- Handwriting samples of known value, for training students in the use of a scale.** Samples A and C. Devised by S. A. Curtis. *Address:* S. A. Curtis, 1807 E. Grand Boulevard, Detroit, Mich.
- Handwriting scale.** Devised by E. P. Gilchrist. *Published by* E. P. Gilchrist, Pensacola, Fla.
- Handwriting test.** Devised by H. C. Walker. *Address:* H. C. Walker, Supervisor of writing, Board of education, St. Louis, Mo.
- Harris teachers' college score card for measurement of handwriting.** Devised by H. C. Miller and F. L. Willey. *Address:* Harris teachers' college, St. Louis, Mo.
- Highland Park handwriting scale.** Devised by F. S. Breed and E. F. Down. *Reference:* Elementary school journal, 17: 470-84, March, 1917.
- Holmes's penmanship test.** All grades. Devised by H. W. Holmes. *Published by* Harvard university, Cambridge, Mass.
- Houston's guide for rating and correcting handwriting.** For Grades IV-VIII. Devised by Harvey Houston. *Address:* Harry Houston, 162 Willard St., New Haven, Conn.
- Johnson-Stone scale.** Devised by G. S. Johnson and C. R. Stone. *Reference:* Elementary school journal, 16: 302-15, February, 1916.
- Kansas City writing scale.** For Grades I-VIII. Devised by George Melcher and others. *Published by* Board of education, Kansas City, Mo.
- Locker's handwriting scale.** For Grades I-VII. Devised by W. C. Locker. *Address:* Richmond, Va.
- Muscular movement penmanship gradient.** For Grades I-VIII. Devised by B. A. Conner. *Published by* Houghton Mifflin company, New York.

- New York City penmanship scale.** For Grades IV-VIII. Devised by C. C. Lister and J. C. Meyers. *Published by Macmillan company, New York City.*
- Palmer handwriting scale.** For Grades I-VIII. Devised by A. N. Palmer. *Published by A. N. Palmer company, 30 Irving place, New York City.*
- Starch's handwriting scale.** For elementary and secondary schools. Devised by Daniel Starch. *Published by University cooperative company, 504 State street, Madison, Wis.*
- Thorndike's handwriting scale.** For Grades V-VIII. Devised by E. L. Thorndike. *Published by Bureau of publication, Teachers college, Columbia university, New York City.*
- Zaner's handwriting scales.** For Grades I-XII, three scales. Devised by C. P. Zaner. *Published by Zaner and Bloser company, 118 N. High street, Columbus, Ohio.*

HISTORY.

General.

- Bell-McCollum tests.** Devised by J. C. Bell and D. F. McCollum. *Reference: Journal of educational psychology, 8:257-74, May, 1917.*
- Buckingham's history test.** Devised by B. R. Buckingham. *Reference: A survey of the Gary and pre-vocational schools of New York City. Seventeenth yearbook of the city superintendent of schools, 1914-15, New York City.*
- Hahn scale for measuring ability of children in history.** For Grades VII-VIII. Devised by H. H. Hahn. *Published by Public school publishing company, Bloomington, Ill.*
- Kelley's test in historical ability.** Devised by T. L. Kelley. *Reference: Teachers college contributions to education, no. 71. Teachers college, Columbia University, New York City.*
- Rugg's tests for historical judgment.** Devised by E. U. Rugg. *Address: The Lincoln school, 425 W. 123rd street, New York City.*
- Theisen's general history tests.** Devised by W. W. Theisen. *Published by The Parker company, Madison, Wis. (In preparation.)*
- Van Wagenen's history reading scales.** For Grades VII and VIII and secondary schools. Devised by M. J. Van Wagenen. *Published by Public school publishing company, Bloomington, Ill.*
- Van Wagenen's history scales.** For elementary schools. Tests for information, A and B; Thought, A and B; Character judgment, A, B, and L. Devised by M. J. Van Wagenen. *Published by Bureau of publications, Teachers college, Columbia university, New York City.*
- Vannest's diagnostic test in modern European history.** Devised by C. G. Vannest. *Published by Bureau of cooperative research, Indiana university, Bloomington, Ind.*

Ancient.

- A true-false test in Roman history.** Devised by S. B. Davis and E. E. Hicks. *Address: University of Pittsburgh, Pittsburgh, Pa.*
- Barnard's test in Roman history.** Devised by A. F. Barnard. *Address: A. F. Barnard, University high school, University of Chicago, Chicago, Ill.*
- Sackett's scale in ancient history.** For secondary schools. Devised by L. W. Sackett. *Address: L. W. Sackett, University of Texas, Austin, Tex.*

American.

- American history test.** Devised by W. H. Rayner, University of Illinois, Urbana, Ill.
- Barr's diagnostic test in American history.** For elementary schools. Devised by A. S. Barr. *Published by Public school publishing company, Bloomington, Ill.*
- Boston research tests in United States history.** For Grades VI, VII, and VIII. Devised by O. C. Pennell. *Address: School committee rooms, Board of education, Boston, Mass.*
- Davis exercises in United States history (Colonial period).** For elementary schools. Devised by S. B. Davis. *Address: University of Pittsburgh, Pittsburg, Pa.*

- Gregory test in American history.** Test I, Forms A and B, for Grade VII; Test II, Forms A and B, for Grade VIII; Test III, for Grades VIII to XII. Devised by C. A. Gregory. *Published by* Bureau of educational research, University of Oregon, Eugene, Oreg.
- Harlan's test for information in American history.** For elementary schools. Devised by C. L. Harlan. *Published by* Public school publishing company, Bloomington, Ill.
- Informational test.** United States history to accompany Beard and Bagley's History of the American people. Devised by S. B. Davis and E. A. Hicks. *Published by* Macmillan company, New York City.
- Spokane United State history test.** For Grade VIII. Devised by O. C. Pratt. *Address:* O. C. Pratt, Superintendent of schools, Spokane, Wash.
- Starch's American history test.** For upper grammar grades and high school. Devised by Daniel Starch. *Published by* University cooperative company, 504 State street, Madison, Wis.
- Understanding of American history.** For Grades VIII-XII. Devised by L. W. Pressey and R. C. Richards. *Published by* Public school publishing company, Bloomington, Ill.
- Van Wagenen's American history scales.** Division I (Information questions), Grades V-VI; Division II (information question and thought questions), Grades VII-VIII; Division III (information questions), secondary schools. Devised by M. J. Van Wagenen. *Published by* Bureau of publications, Teachers college, Columbia university, New York City.

INTELLIGENCE.

- Army group intelligence examination, alpha.** Devised by Division of psychology, S. G. O. *Published by* C. H. Stoelting and company, 3037-47 Carroll avenue, Chicago, Ill.; also Kansas State normal school, Emporia, Kans.
- Army group intelligence examination, Beta.** Devised by Division of psychology, S. G. O. *Published by* C. H. Stoelting and company, 3037-47 Carroll avenue, Chicago, Ill.; also Kansas State normal school, Emporia, Kans.
- Army tests used in E. M. B. special school.** Devised by C. E. Halley and others. *Address:* Camp Grant, Ill. (Out of print.)
- Brown university psychological examinations.** Exercise A, B, C. *Published by* Brown university, Providence, R. I.
- Business alpha.** The 20-minute intelligence examination, arranged and standardized for vocational and business purposes. Devised by H. D. Fryer and L. D. Fryer. *Published by* Carlisle press, Brooklyn, N. Y., 1922.
- Chapman-Welles junior and senior high-school classification test.** For elementary and secondary schools. Devised by J. C. Chapman and J. B. Welles. *Published by* Dobson and Evans, Columbus, Ohio.
- Chelsea mental tests, for elementary school children.** Group tests of intelligence. Devised by P. B. Ballard. *Published by* Hodlard and Stoughton, London, England.
- Chicago group intelligence tests.** Devised by F. N. Freeman and H. O. Rugg. *Published by* University of Chicago bookstore, 5802 Ellis avenue, Chicago, Ill.
- Colb-Vincent test for school entrance.** For children entering school. *Published by* Kansas state normal school, Emporia, Kans.
- Crichton test for high-school pupils.** Devised by P. B. Ballard. *Published by* Hodlard and Stoughton, London, England.
- Cycle-omnibus intelligence scale.** Devised by L. L. Thurstone. *Published by* C. H. Stoelting and company, 3037 Carroll avenue, Chicago, Ill.
- Dearborn's group intelligence tests.** (Revised edition.) Series I for Grades I-III; Series II for Grades IV-XII. Devised by W. S. Dearborn. *Published by* J. B. Lippincott & company, Philadelphia, Pa.
- Detroit first-grade intelligence tests.** Devised by A. M. Engel. *Published by* World book company, Yonkers-on-Hudson, N. Y.
- Detroit kindergarten test.** Devised by H. F. Baker and H. F. Kaufmann. *Published by* World book company, Yonkers-on-Hudson, N. Y.
- Differentiating tests for defective delinquent classes.** Devised by G. G. Fernald. *Published by* C. H. Stoelting co., 3037-47 Carroll ave., Chicago, Ill.
- Examination of school children.** Devised by W. H. Pyle. *Published by* C. H. Stoelting company, 3037 Carroll avenue, Chicago, Ill.
- Ferguson's series of form boards.** For all grades through college. Devised by G. O. Ferguson. *Reference:* Journal of experimental psychology, 3: 47-58, February, 1920. *Manufactured by* C. H. Stoelting company, 3037 Carroll avenue, Chicago, Ill.

- First-grade entrance test.** Devised by Department of research, Akron, Ohio. *Address:* Department of research, Akron, Ohio.
- Goddard's revision of the Binet scale.** An individual test for ages 3 to 10 years. Devised by H. H. Goddard. *Address:* Ohio State university, Columbus, Ohio.
- Griffin group intelligence test.** For Grades VII-XII. Devised by A. C. Griffin. *Address:* A. C. Griffin, Director of high school research, Los Angeles city schools, Los Angeles, Calif.
- Group intelligence test for school entrants.** Devised by L. W. Cole and L. E. Vincent. *Published by* Bureau of educational measurements and standards, Kansas State normal school, Emporia, Kans.
- Group tests without prepared blanks (revised).** For Grades VI-X. Needs only paper and pencil. Devised by J. C. Chapman. *Address:* J. Crosby Chapman, Yale university, New Haven, Conn.
- Gunnison primary test A.** Test blanks (including Parts I, II, III, IV) and manual of directions. Devised by H. T. Manuel. *Address:* Colorado State normal school, Gunnison, Colo.
- Haggerty's intelligence examination.** Delta 1, for Grades I-III; Delta 2 for Grades III-IX. Devised by M. E. Haggerty. *Published by* World book company, Yonkers-on-the-Hudson, N. Y.
- Holley's picture completion test.** For primary grades. Devised by C. E. Holley. *Published by* Public school publishing company, Bloomington, Ill.
- Holley's sentence vocabulary scale.** For elementary and secondary schools; two different series. Devised by C. E. Holley. *Published by* Public school publishing company, Bloomington, Ill.
- Hollingsworth's vocational psychology tests.** Devised by L. S. Hollingsworth. *Published by* C. H. Stoelting company, 3037 Carroll avenue, Chicago, Ill.
- How smart are you? A series of six mental tests.** Devised by Max Watson. *Address:* Max Watson, 39 Hampton place, Milley, N. J.
- Huey's A point scale of tests for intelligence.** For elementary schools. Devised by E. B. Huey. *Published by* Warwick and York, Baltimore, Md.
- Huey's revision of Binet-Simon tests for intelligence age.** An individual test. Devised by E. B. Huey. *Published by* Warwick and York, Baltimore, Md.
- Illinois general intelligence scale (Monroe-Buckingham).** For elementary schools. Devised by W. S. Monroe and B. R. Buckingham. *Published by* Public school publishing company, Bloomington, Ill.
- Intermediate classification test.** Form A. For Grades III-VI. Devised by S. L. Pressey and L. C. Pressey. *Published by* Public school publishing company, Bloomington, Ill.
- Intermediate verifying test.** For Grades III-VI. Devised by S. L. Pressey and L. C. Pressey. *Published by* Public school publishing company, Bloomington, Ill.
- Kelley's constructive ability test.** Devised by T. L. Kelly. *Published by:* C. H. Stoelting co., 3037 Carroll ave., Chicago, Ill.
- Kent's geometrical and colored picture-puzzles.** *Published by* C. H. Stoelting company, 3037 Carroll ave., Chicago, Ill.
- Kingsbury's primary group intelligence test.** Devised by H. A. Kingsbury. *Published by* Public school publishing company, Bloomington, Ill.
- Kuhlmann's revision of the Binet-Simon test.** Devised by Frederick Kuhlmann. *Published by* Warwick and York, Baltimore, Md.
- Link's employment psychology tests.** Devised by H. C. Link. *Published by* C. H. Stoelting company, 3037 Carroll ave., Chicago, Ill.
- Maze tests for mental deficiency.** Devised by S. D. Porteus. *Published by* C. H. Stoelting company, 3037 Carroll avenue, Chicago, Ill.
- Melville's testing juvenile mentality.** An individual test. Devised by M. J. Melville. *Published by* J. B. Lippincott and company, Philadelphia, Pa.
- Mental and physical measurements for working children.** Devised by H. T. Wooley and C. R. Fisher. *Published by* C. H. Stoelting company, 3037 Carroll ave., Chicago, Ill.
- Mental measure.** For all ages, kindergarten through university. Devised by C. E. Myers and G. C. Myers. *Published by* Newson and company, 73 Fifth avenue, New York City.
- Mentimeter, The.** School group II-A. For all grades through college. Devised by M. R. Trabue. *Published by* Doubleday Page and company, Garden City, N. Y.

- Method of measuring the development of the intelligence of young children.** Devised by A. Binet and T. Simon. Trans. by C. H. Towne. Published by Medical book company, Chicago, Ill.
- Miller's mental ability test.** (Forms A and B.) For junior and senior high school students and college freshmen. Devised by W. S. Miller. Published by World book company, Yonkers-on-the-Hudson, N. Y. Reference: New York survey report and Twenty-first yearbook of the National society for the study of education.
- National intelligence tests.** Scale A, Forms 1 and 2; Scale B, Forms 1 and 2. Devised by E. L. Thorndike, M. E. Haggerty, L. M. Terman, G. M. Whipple, and R. M. Yerkes. For Grades III-IX. Published by World book company, Yonkers-on-the-Hudson, N. Y.
- New Jersey composite test.** For Grade V. Devised by R. L. Schaeffer and others. Address: Board of education, Trenton, N. J.
- New York board of charities.** Twenty-four standardized mental tests. Devised by New York board of charities. Published by C. H. Stoelting company, 3037 Carroll avenue, Chicago, Ill.
- Northumberland mental tests.** For elementary school children. Devised by Godfrey Thompson. Published by Harrap and company, Newcastle, England.
- Objective examination on intelligence testing.** Devised by D. L. Geyer. Published by The Plymouth press, Chicago, Ill.
- Ohio State university, Department of psychology. University intelligence tests.** Address: Department of psychology, Ohio State university, Columbus, Ohio.
- Omaha group test.** Devised by P. R. Stevenson. Address: P. R. Stevenson, Research associate, Bureau of educational research, Ohio State university, Columbus, Ohio.
- Otis general intelligence examination.** For business institutions. Devised by A. S. Otis. Published by World book company, Yonkers-on-the-Hudson, N. Y.
- Otis group intelligence scale.** Primary examination (Forms A and B) for Grades I-IV; Advanced examination (Forms A and B) for Grades V-XII and college students. Devised by A. S. Otis. Published by World book company, Yonkers-on-the-Hudson, N. Y.
- Otis self-administered tests of mental ability.** Higher examination, Forms A and B, for Grades IX-XII and college students; Intermediate examination, Forms A and B, for Grades V-IX. Devised by A. S. Otis. Published by World book company, Yonkers-on-the-Hudson, N. Y.
- Pantomime group intelligence test.** Devised by G. C. Myers. Published by Newson and company, 73 Fifth avenue, New York City.
- Performance scale examination.** Division of psychology, Medical department. Authorized by the surgeon general, U. S. A., February 23, 1918. Published by C. H. Stoelting company, 3037 Carroll avenue, Chicago, Ill.
- Picture game.** Test for kindergarten and first-grade children. Devised by C. H. Town. Address: C. H. Town, 205 Delaware avenue, Buffalo, N. Y.
- Pintner's educational survey and non-language test.** For Grades III-VIII. Devised by Rudolph Pintner. Address: Teachers college, Columbia university, New York City.
- Pintner's non-language mental test.** For Grades II-VIII. Devised by Rudolph Pintner. Published by College book store, Columbus, Ohio.
- Pintner's survey tests.** Devised by Rudolph Pintner. Published by C. H. Stoelting company, 3037 Carroll avenue, Chicago, Ill.; also D. Appleton company, New York City.
- Pintner-Cunningham primary test for kindergarten.** For Grades I and II. Form 1. Devised by Rudolph Pintner and B. V. Cunningham. Published by World book company, Yonkers-on-the-Hudson, N. Y.
- Pintner-Patterson A scale of performance tests.** Devised by Rudolph Pintner and T. L. Patterson. Published by C. H. Stoelting company, 3037 Carroll avenue, Chicago, Ill.
- Pintner-Toops revised directions test.** Devised by Rudolph Pintner and H. A. Toops. Published by C. H. Stoelting and company, 3037 Carroll Avenue, Chicago, Ill.
- Point scale examination.** Division of psychology. Medical department, U. S. A. Authorized by the Surgeon-General, February 8, 1918. Edition August 7, 1918. Published by C. H. Stoelting company, 3037 Carroll avenue, Chicago, Ill.

- Porteus maze tests for mental deficiency:** Vineland, N. J. A series of mazes for different ages. Devised by S. D. Porteus. *Published by C. H. Stoelting company, 3037 Carroll avenue, Chicago, Ill.*
- Porteus-Hill revision Binet-Simon measuring scale for intelligence.** Devised by S. D. Porteus and H. F. Hill. *Published by C. H. Stoelting co., 3037 Carroll ave., Chicago, Ill.*
- Practical mental classification test.** Devised by William Healy. *Published by C. H. Stoelting co., 3037-47 Carroll ave., Chicago, Ill.*
- Pressey mental survey scale.** Cross-out tests. (Group test of intelligence.) For Grades IV-XII. Devised by S. L. Pressey and L. C. Pressey. *Published by Indiana university, Bloomington, Ind.*
- Pressey's mental survey scale no. 1, Schedule D.** Devised by S. L. Pressey and L. C. Pressey. *Published by Indiana university, Bloomington, Ind.*
- Pressey's mental survey test.** Primer scale. For Grades I-III. Devised by S. L. Pressey and L. C. Pressey. *Published by Indiana university, Bloomington, Ind.*
- Primary classification test.** (A group test of intelligence.) For Grades I-III. Devised by L. C. Pressey. *Published by Public school publishing company, Bloomington, Ill.*
- Psychological examination.** Collegiate. Devised by John A. Anderson. *Published by Yale press, New Haven, Conn.*
- Psychological tests for high schools and colleges.** Devised by F. O. Smith. *Address: State university of Montana, Department of psychology, Missoula, Mont.*
- Senior classification test.** (A group test of intelligence.) For Grades VII-XII. Devised by S. L. Pressey and L. C. Pressey. *Published by Public school publishing company, Bloomington, Ill.*
- Senior verifying test.** For grades VII-XII. Devised by S. L. Pressey and L. C. Pressey. *Published by Public school publishing company, Bloomington, Ill.*
- Simplex group intelligence scale.** Ages 8 to 24 years. Devised by C. A. Richardson. *Published by G. G. Harrap Company, London, England (1923).*
- Smith's graded intelligence tests.** Test 1, Grades I-IV, Grades V-VIII. Devised by F. O. Smith. *Address: State University of Montana, Department of psychology, Missoula, Mont.*
- South Dakota group intelligence test for high schools.** Devised by W. H. Batson. *Address: University of South Dakota, Vermilion, S. Dak.*
- Spearman intelligence tests.** For advanced high school and college students. Devised by Charles Spearman. *Address: University college, London, England.*
- Stanford revision of the Binet-Simon (Terman) tests.** An individual test. A revision of the Binet-Simon test prepared by L. M. Terman. *Address: Houghton Mifflin company; C. H. Stoelting co., 3037 Carroll avenue, Chicago, Ill.*
- Superior adult test.** (Effective for detecting clerical or secretarial skill of a high order.) Devised by A. A. Roback. *Published by C. H. Stoelting company, 3037 Carroll ave., Chicago, Ill.*
- Supplementary mentality tests.** (Interpretation, application, and analysis.) Devised by A. A. Roback. *Published by C. H. Stoelting and company, 3037 Carroll ave., Chicago, Ill.*
- Terman group test of mental ability.** (Forms A and B.) For secondary schools and Grades VII-XII. Devised by L. M. Terman. *Published by World book company, Yonkers-on-the-Hudson, N. Y.*
- Test Z.** (A ten-minute intelligence test.) For use by employment offices. *Published by C. H. Stoelting co., 3037 Carroll ave., Chicago, Ill.*
- Theisen-Flemming classification test.** Devised by W. W. Theisen and C. W. Flemming. *Address: State department of public instruction, Madison, Wis. (In preparation.)*
- Thorndike's intelligence examination for high-school graduates.** Devised by E. L. Thorndike. *Published by Bureau of publications, Teachers college, Columbia university, New York City.*
- Thurstone's miscellaneous intelligence test.** Devised by L. L. Thurstone. *Published by C. H. Stoelting co., 3037 Carroll avenue, Chicago, Ill.*
- Thurstone's psychological examination for college freshmen and high-school seniors.** For secondary schools and colleges. Devised by L. L. Thurstone. *Published by C. H. Stoelting company, 3037 Carroll avenue, Chicago, Ill. Annual editions released on September of each year.*

- United States immigration bureau tests (Knox).** Published by C. H. & Stoelting company, 3037 Carroll ave., Chicago, Ill.
- Wallin's test for measuring the rate of mental growth and improvement.** Devised by J. E. W. Wallin. Published by C. H. Stoelting company, 3037 Carroll avenue, Chicago, Ill.
- Washburne's classified scale for measuring intelligence.** Based on the Binet scale. Devised by C. E. Washburne. Reference: Journal of educational psychology, 10: 309-22, September, 1919.
- "West Riding" test of mental ability.** Devised by T. P. Tomlinson. Published by Hodder & Stoughton, London, England (1923).
- Whipple's group test for grammar grades.** For Grades IV-VIII. Devised by G. M. Whipple. Address: G. M. Whipple, University of Michigan, Ann Arbor, Mich.
- Whipple's tests for selecting gifted children.** For Grades V-VIII. Devised by G. M. Whipple. Published by Public school publishing company, Bloomington, Ill.
- Wisconsin group intelligence test.** Devised by W. W. Theisen. Address: State department of public instruction, Madison, Wis.
- Woodworth-Wells association tests.** For elementary and secondary schools. Devised by R. S. Woodworth and F. L. Wells. Published by C. H. Stoelting company, 3037 Carroll avenue, Chicago, Ill.
- Yerkes-Bridges-Hardwick point scale for mental ability.** Devised by R. M. Yerkes, J. W. Bridges, and R. S. Hardwick. Published by C. H. Stoelting company, Chicago, Ill.
- Yerkes-Rossy adolescent adult point scale.** Devised by R. M. Yerkes and C. S. Rossy. Reference: "A point scale for the measurement of intelligence in adolescent and adult individuals." Boston medical and surgical journal, 16: 564-73, April 16, 1917.

LANGUAGE.

- Charters's diagnostic language tests.** For Grades III-VIII. Devised by W. W. Charters. Published by Public school publishing company, Bloomington, Ill.
- Kelley's completion exercises, alpha and beta.** For Grades II-XII. (The Trabue adapted to individual testing.) Devised by T. L. Kelley. Published by Bureau of publications, Teachers college, Columbia university, New York City.
- Thompson's minimum essentials in language.** Practice exercises with research tests. For Grades III-VIII. Devised by T. C. Thompson. Published by Ginn and company, Boston, Mass.
- Trabue's completion test language scales.** Different scales for elementary and for high schools. Devised by M. R. Trabue. Published by Public school publishing company, Bloomington, Ill.
- Wilson's language error test.** For Grades III-XII. Devised by G. M. Wilson. Published by World book company, Yonkers-on-the Hudson, N. Y.

LATIN.

- Brown's Latin tests.** For secondary schools. Devised by H. A. Brown. Published by Parker company, Madison, Wis.
- Godsey diagnostic Latin composition test.** For Grades IX-XII. Devised by E. R. Godsey. Published by E. R. Godsey, Atchison, Kans.
- Hanus's Latin tests.** Devised by Paul Hanus. Reference: School review, 24: 342-51, May, 1916; contained in Hanus's School administration and school reports, Houghton Mifflin company, Boston, Mass.
- Henmon Latin tests.** For secondary schools. Tests 1, 2, 3, 4, X. Devised by V. A. C. Henmon. Published by World book company, Yonkers-on-the-Hudson, N. Y.
- Kansas Latin test.** For secondary schools. Devised by W. L. Hots and E. R. Godsey. Published by Kansas state normal school, Emporia, Kans.
- Lohr-Ladshaw Latin form tests.** Devised by L. L. Lohr. Published by University of North Carolina, Chapel Hill, N. C.
- Pressey test in Latin syntax.** For Grades VIII-XII. Devised by L. C. Pressey. Published by Public school publishing company, Bloomington, Ill.

- Starch's Latin test for secondary schools.** Devised by Daniel Starch. Published by The University cooperative company, 504 State street, Madison, Wis.
- Starch-Watter Latin tests.** For secondary schools. Devised by Daniel Starch and J. M. Watter. Published by University cooperative company, 504 State street, Madison, Wis.
- Tyler-Presssey test in Latin verbs.** (A diagnostic test in knowledge of tense, mode, and voice of Latin verbs.) Devised by Caroline Tyler and S. L. Presssey. Published by Public school publishing company, Bloomington, Ill.
- Ullman-Kirby Latin comprehension test.** Devised by B. L. Ullman and T. J. Kirby. Published by University of Iowa, Iowa City.
- Wentworth Latin tests.** For Grades VII and XII. Devised by M. M. Wentworth. Published by Board of education, Los Angeles, Calif.
- White Latin test II.** Devised by D. S. White. Published by World book company, Yonkers-on-Hudson, N. Y.

MATHEMATICS.

(See also Algebra, Arithmetic, and Geometry.)

- Kelley's mathematical values test.** For secondary school pupils and entering college freshmen. Devised by T. L. Kelley. Reference: Teachers college record, 21: 247-90, May, 1920.
- Rogers's test for diagnosing mathematical ability.** For Grade IX. Devised by A. L. Rogers. Published by Teachers college, Columbia university, New York City.

MUSIC.

- Baldwin's public school music test.** Devised by Baldwin. Reference: Music supervisors' national conference proceedings, 1914.
- Beach's music test.** For elementary and secondary schools and colleges. Devised by F. A. Beach. Address: Kansas State normal school, Emporia, Kans.
- Courtis series M, music test.** Recognition of characteristic rhythms, Grades IV to XII. Devised by S. A. Courtis. Address: 1807 E. Grand Boulevard, Detroit, Mich.
- Fullerton's scale.** Address: Iowa State teachers college, Cedar Falls, Iowa.
- Mosher sight reading music test.** Devised by R. M. Mosher. Address: State teachers college, Santa Barbara, Calif.
- Psychology of musical talent tests.** Devised by E. E. Seashore. Published by C. H. Stoelting company, Chicago, Ill.
- Seashore's musical talent chart.** For any grade. Devised by E. E. Seashore. Published by Silver Burdett and company, Boston, Mass.
- Torgerson-Fahnestock public school music tests for elementary schools.** Devised by T. L. Torgerson and Fahnestock. Address: Department of educational measurements, West Allis, Wis.

PHYSICS.

- Balderston's elementary physics.** Published by Christopher Sower co., 614 Arch st., Philadelphia, Pa.
- Caldwell's science tests.** Physics. See reference under Science.
- Camp's scales for measuring the results of physics teaching.** Devised by H. L. Camp. Reference: University of Iowa studies in education, vol. 2, no. 2.
- Chapman's tests in electricity and magnetism, sound and light.** For secondary schools. Devised by J. C. Chapman. Address: Yale university, New Haven, Conn.
- Jones' union science tests: Physics.** For secondary schools. Devised by F. T. Jones. Address: 10109 Wilbur avenue, Cleveland, Ohio.
- Miller's tests in mechanics and heat.** Secondary schools. Devised by P. S. Miller. Address: Meriden, Conn.
- Physics tests.** Devised by E. R. Glenn. Address: Lincoln school, Teachers college, New York.
- Physics tests.** Devised by H. W. Tilton. Address: University of Pittsburgh, Pittsburgh, Pa.
- Place of numerical problems in high school physics, The.** Devised by D. P. Randall, J. C. Chapman, and C. W. Sutton. Address: Western reserve university, Cleveland, Ohio.

- Randall-Chapman-Sutton test in mechanics.** Information not complete. Devised by D. P. Randall, J. C. Chapman, and C. W. Sutton. Address: D. P. Randall, Western reserve university, Cleveland, Ohio.
- Starch's physics test.** For secondary schools. Devised by Daniel Starch. Published by University cooperative company, 504 State st., Madison, Wis.
- Thurstone's physics problems.** For secondary schools and colleges, especially for high-school graduates with engineering interests. Devised by L. L. Thurstone. Published by World book company, Yonkers-on-the-Hudson, N. Y.
- Thurstone's physics test.** See Thurstone vocational guidance tests. Devised by L. L. Thurstone. Address: Carnegie institute of technology, Pittsburgh, Pa.

POETRY.

- Abbott-Trabue scales for the appreciation of poetry.** For secondary schools and colleges. Devised by Alan Abbott and M. R. Trabue. Published by Bureau of publications, Teachers college, Columbia university, New York City.

READING.

- Adams's silent reading tests.** For Grades I-VIII. Devised by W. C. T. Adams. Published by E. E. Babb and company, 212 Summer street, Boston, Mass.
- Brown's silent reading tests.** For Grades III-VIII. Devised by H. A. Brown. Published by Castle-Pierce printing company, Oshkosh, Wis.
- Burgess scale for measuring ability in silent reading.** (Four equivalent forms.) For Grades III-VIII. Devised by M. A. Burgess, 1920-21. Published by Russell Sage foundation, New York City.
- Courtis research tests in silent reading.** Test 2. For elementary schools. Devised by S. A. Courtis. Address: S. A. Courtis, 1807 E. Grand Boulevard, Detroit, Mich.
- Courtis standard research tests.** Silent reading test no. 2. Series R. For elementary schools. Devised by S. A. Courtis. Address: S. A. Courtis, 1807 East Grand Boulevard, Detroit, Mich.
- Fordyce's scale for measuring achievements in reading.** Test I, for Grades III-V; Test II, for Grades VI-VIII. Devised by Charles Fordyce. Published by University publishing company, Lincoln, Nebr.
- Gray's oral reading test.** For elementary schools. Devised by W. S. Gray. Published by University of Chicago press, Chicago, Ill.
- Gray's silent reading tests.** For elementary schools. Devised by W. S. Gray. Published by University of Chicago press, Chicago, Ill.
- Haggerty's reading examination.** Sigma 1 for Grades I-III; Sigma 2 for Grades III-VIII; Sigma 3 for Grades V-XII. Devised by M. E. Haggerty. Published by World book company, Yonkers-on-the-Hudson, N. Y.
- Holmes' silent reading test.** For elementary schools. Grades I-VIII. Devised by H. W. Holmes. Address: Harvard university, Cambridge, Mass.
- Hoover-Kelly reading cards.** (Practice exercise.) Devised by J. H. Hoover and F. J. Kelly. Published by W. H. Wheeler and company, Chicago, Ill.
- Jones's standards in mechanics of elementary reading.** For elementary schools. Devised by P. G. Jones. Published by Dobson-Evans co., Columbus, Ohio.
- Kansas silent reading tests.** For elementary and secondary schools. Devised by T. L. Kelley. Published by Kansas State normal school, Emporia, Kans.
- Minnesota reading scale, beta.** Scale for Grades III-V; scale for Grades VI-IX. Published by University of Minnesota, Minneapolis, Minn.
- Monroe's standardized silent reading tests.** For grades III-VIII and for secondary schools. Three different tests. Devised by W. S. Monroe. Published by Public school publishing company, Bloomington, Ill.
- Pressey's diagnostic tests in silent reading.** (Speed and vocabulary.) Grades II, III, and IV. Devised by L. C. Pressey. Published by Indiana university, Bloomington, Ind.
- Pressey's first-grade reading vocabulary tests.** (Vocabulary and sentences.) Devised by L. C. Pressey. Published by Public school publishing co., Bloomington, Ill.
- Price's practical oral reading test.** For Grades II-VIII. Devised by E. D. Price. Address: Enid, Okla.

- Reading scale.** Maud A. Merrill, department of psychology, Stanford university, Calif. *Reference:* Journal of educational psychology, 1: 389-401, October, 1919.
- Research tests in reading.** For Grades IV-VIII. Devised by Department of educational investigation and measurement, Boston public schools. *Address:* Boston public schools.
- St. Paul survey silent reading test for high schools.** Now contained in Haggerty reading examination, Sigma 3.
- Silent reading tests nos. 1 and 2.** Devised by E. C. Witham. *Published by* J. L. Hammett co., Kendall square, Cambridge, Mass.
- Smith's picture story reading test for primary grades.** For Grades II, III, IV. *Published by* Detroit public schools, Detroit, Mich.
- Smith's silent reading paragraphs for high schools.** Devised by B. M. Smith. *Address:* High school, Oak Park, Ill.
- Standardized oral reading paragraphs.** For elementary schools. *Devised by* W. S. Gray. *Published by* Public school publishing company, Bloomington, Ill.
- Starch's silent reading test.** For Grades I-VIII. Devised by Daniel Starch. *Published by* University cooperative co., 504 State street, Madison, Wis.
- Stone series of narrative reading tests.** For Grades III-IX. Devised by C. R. Stone and others. *Published by* Public school publishing company, Bloomington, Ill.
- Thorndike-McCall reading scale for the understanding of sentences.** For Grades II-VIII. Devised by E. L. Thorndike and W. A. McCall. *Published by* Teachers college, Columbia university, New York City.
- Thorndike's scale alpha 2 for measuring the understanding of sentences.** Part I for Grades III-V; Part II for Grades VI-XII. Devised by E. L. Thorndike. *Published by* Teachers college, Columbia university, New York City.
- Van Wagenen reading scales in English literature.** For Grades VII and VIII and secondary schools. Devised by M. J. Van Wagenen. *Published by* Public school publishing co., Bloomington, Ill.
- Westbrook-Dearborn reading examination.** For grammar grades. Devised by C. H. Westbrook and W. F. Dearborn. *Address:* Harvard university, Cambridge, Mass.
- Wisconsin supervisory tests in reading.** For Grades I-III. Devised by H. W. Kircher. *Published by* Eau Claire book company, Eau Claire, Wis. (1923).
- Woody's silent reading test.** Devised by Clifford Woody. *Address:* Bureau of educational reference and research, University of Michigan, Ann Arbor, Mich.

SCIENCE.

- Caldwell's science tests.** *Devised by* O. W. Caldwell. *Reference:* Gary public schools science teaching. General education board, New York City, 1919.
- Olmstead's diagnostic test in physiology.** Devised by M. C. Olmstead. *Address:* Clarkston, Wash.
- Revised range of information test in science.** Devised by E. R. Downing. *Address:* University of Chicago, Chicago, Ill.
- Ruch's range of information test in general science.** For Grades VIII-IX. Devised by G. M. Ruch. *Address:* University of Iowa, Iowa City, Iowa.
- Test in general science.** Used in obtaining data for the "Reaction of children of the last three grammar grades to science." Devised by H. A. Webb. *Reference:* George Peabody college for teachers, Nashville, Tenn. (Peabody contributions to education no. 4.)
- Testing laboratory resourcefulness.** For secondary schools. Devised by H. A. Webb. *Reference:* George Peabody college for teachers, Nashville, Tenn. School science and mathematics, 22: 259-66, March, 1922.
- Thurstone's general technical information test.** *See* Thurstone vocational guidance tests. Devised by L. L. Thurstone. *Address:* Carnegie institute of technology, Pittsburgh, Pa.
- Van Wagenen reading scales for general science.** Scales, A and B. Devised by M. J. Van Wagenen. *Published by* Public school publishing company, Bloomington, Ill.

SPANISH.

- Handschin's modern language tests.** Silent reading tests A and B, Spanish. For secondary schools and colleges. Devised by C. H. Handschin. *Published by* World book company, Yonkers-on-the-Hudson, N. Y.

SPELLING.

- Ayres's spelling scale.** For elementary schools. 1915. Devised by L. F. Ayres. Published by Russell Sage foundation, New York City.
- Boston, An experimental method of teaching spelling.** Address: Boston model school, Boston, Mass. (School document no. 3.)
- Boston minimum spelling lists.** For elementary schools. Devised by F. W. Ballou. Address: Board of education, Boston, Mass.
- Buckingham-Coxe English spelling.** Devised by B. R. Buckingham and W. W. Coxe. Address: Ohio State university, Columbus, Ohio.
- Buckingham's extension of the Ayres spelling scale.** For elementary schools. Devised by B. R. Buckingham. Published by Public school publishing company, Bloomington, Ill.
- Buckingham's spelling scale.** Devised by B. R. Buckingham. Reference: Teachers college, Columbia university contributions to education, no. 59.
- Courtis standard research tests in spelling.** For elementary schools. Devised by S. A. Courtis. Address: 1807 E. Grand Boulevard, Detroit, Mich.
- Courtis standard supervisory tests (composition spelling test).** For Grades II-B to VIII-A. Devised by S. A. Courtis. Address: 1807 East Grand Boulevard, Detroit, Mich.
- Courtis standard supervisory tests in spelling.** For elementary schools. Devised by S. A. Courtis. Address: 1807 E. Grand Boulevard, Detroit, Mich.
- Guhin's test yourself in spelling.** For Grades VII and VIII, junior high school. Devised by M. M. Guhin. Published by Hub City school supply company, Aberdeen, S. Dak.
- Iowa dictation exercise and spelling tests.** For Grades III-VIII. Devised by E. J. Ashbaugh. Address: Ohio State university, Columbus, Ohio.
- Iowa spelling scale (Ashbaugh).** For Grades II-VIII. Devised by E. J. Ashbaugh. Reference: Iowa spelling scales (Educational research monograph, no. 3, 1922). Public school publishing company, Bloomington, Ill.
- Jones's one hundred spelling demons.** For elementary schools. Devised by W. F. Jones. Address: University of Southern California, Los Angeles, Calif.
- Minnesota spelling test.** For Grades II-VIII. Devised by M. E. Haggerty. Published by University of Minnesota, Minneapolis, Minn.
- Monroe's timed sentence spelling tests.** For elementary schools. Devised by W. S. Monroe. Published by Public school publishing company, Bloomington, Ill.
- Morrison-McCall spelling scales.** Devised by J. C. Morrison and W. A. McCall. Published by World book company, Yonkers-on-the-Hudson, N. Y.
- Nebraska spelling test.** For elementary schools. Devised by Charles Fordyce. Address: University of Nebraska, Lincoln, Nebr.
- Rice's spelling test.** The first educational test. Devised by J. M. Rice. Reference: Forum, March-August, 1897.
- Seven spelling scales for high schools.** Devised by T. L. Kelly and T. H. Briggs. Address: Teachers college, Columbia university, New York City.
- Sixteen spelling scales.** For secondary schools. Devised by Earl Hudelson, F. S. Stetson, and Ella Woodyard. Address: Teachers college, Columbia university, New York City.
- Spelling list for the grades.** Los Angeles City school district.
- Spelling test.** Iowa State teachers' college-extension division. Adaptation of the Virginia list. Reference: Inglis, A. J., The Virginia survey. World book company, Yonkers-on-the-Hudson, N. Y.
- Spelling tests, May 1919.** Address: Department of education investigation and measurements. Boston public schools.
- Standard dictation tests in spelling.** Form E. For Grades V-VIII. Devised by S. A. Courtis. Address: 1807 East Grand Boulevard, Detroit, Mich.
- Starch's spelling scale.** For elementary and secondary schools. Devised by Daniel Starch. Published by University cooperative company, 504 State street, Madison, Wis.
- Starch's spelling tests.** For elementary schools. Devised by Daniel Starch. Published by Macmillan company, New York.
- Thurstone spelling test.** Devised by L. L. Thurstone. Address: Carnegie institute of technology, Pittsburgh, Pa.
- Tidyman standard spelling tests.** (For use with supervised study speller.) Any grade. Devised by W. F. Tidyman. Published by World book company, Yonkers-on-the-Hudson, N. Y.

VOCABULARY.

- Carr's English vocabulary test.** Forms A and B. Devised by W. L. Carr. Address: Prof. W. L. Carr, Oberlin college, Oberlin, Ohio.
- Haggerty's reading test: visual vocabulary.** For Grades III-IV. Devised by Bureau of cooperative research, College of education, University of Minnesota. Address: Minneapolis, Minn.
- Haggerty's visual vocabulary scale.** For Grades III-VIII. Reference: Elementary school journal, 17: 106-15, October, 1916.
- Holley sentence vocabulary scale.** For Grades III-XII. Devised by C. E. Holley. Published by Public school publishing company, Bloomington, Ill.
- Nehers' high school vocabulary scale.** Address: H. S. Nehers, Northwestern university, Evanston, Ill. (Information not complete.)
- Southington-Plymouth English vocabulary test.** For elementary schools. Devised by E. C. Witham. Published by J. L. Hammett company, Kendall square, Cambridge, Mass.
- Starch's English vocabulary test.** For Grades V-XII and college. Devised by Daniel Starch. Published by University cooperative company, 504 State street, Madison, Wis.
- Thorndike's test of word knowledge.** For Grades IV-X. Devised by E. L. Thorndike. Published by M. D. Gray, East high school, Rochester, N. Y.
- Thorndike's visual vocabulary scale.** For Grades III-X. Devised by E. L. Thorndike. Published by Bureau of publications, Teachers college, Columbia university, New York.
- Vocabulary study.** Devised by F. M. Gerlach. Published by Denton printing co., Colorado Springs, Colo.

VOCATIONAL.

- Analysis of work interest blank.** (For discovering special interests and abilities.) Designed for educational and vocational counselors. Devised by J. B. Miner. Published by C. H. Stoelting co., 3037 Carroll ave., Chicago, Ill.
- Army trade tests.** Devised by William T. Bawden. Address: Department of the Interior, Bureau of education, Washington, D. C.
- Blackstone stenographic proficiency tests.** Devised by E. G. Blackstone. Published by World book co., Yonkers-on-the-Hudson, N. Y.
- Bowman-Trieling information on reasoning in textiles and clothing.** Devised by L. S. Bowman and M. B. Trieling. Address: University of Chicago, Chicago, Ill.
- Chart for diagnosing defects in buttonholes.** Devised by H. K. Stiebeling and D. A. Worcester. Published by Bureau of educational measurements and standards, Kansas state normal school, Emporia, Kans.
- Clerical test K.** Devised by E. J. Bengel. Published by C. H. Stoelting co., 3037 Carroll ave., Chicago, Ill.
- Courtis' test of teacher rating.** Form I. Devised by S. A. Courtis. Address: 1807 E. Grand Blvd., Detroit, Mich.
- Employment psychology tests.** Devised by H. C. Link. Published by C. H. Stoelting co., 3037 Carroll ave., Chicago, Ill.
- Graphic rating scale for teachers.** Devised by Max Freyd. Published by C. H. Stoelting company, 3037 Carroll ave., Chicago, Ill.
- Home economics information test.** Grade VIII. Prepared by students of Teachers college. Address: Teachers college, Columbia university, New York City.
- Home economics tests.** For secondary schools. Devised by Helen Goodspeed and Bernice Dodge. Published by The Parker Co., Madison, Wis.
- Measuring scale for Gregg shorthand, junior and senior years.** Devised by Elmer R. Hoke. Published by Gregg publishing co., Chicago, Ill.
- Mental alertness test.** For business. Published by Scott company, 761 Drexel bldg., Philadelphia, Pa.
- Mental tests for prospective telegraphers.** A study of the diagnostic value of mental tests for predicting ability to learn telegraphy. Devised by L. L. Thurstone. Reference: Journal of applied psychology; 3: 110-17, June, 1919.
- Murdoch's sewing scale.** For any grade. Devised by Katharine Murdoch. Teachers college, Columbia university, New York City.

- National business ability tests.** Standard English tests. Devised by S. Cody. *Reference:* Commercial tests and how to use them. *Published by* World book co., Yonkers-on-the-Hudson, N. Y.
- Oberlin vocational guidance tests.** Information, reasoning, rapid adaptation, speed and accuracy. *Published by* Oberlin college, Oberlin, Ohio.
- Professional test for elementary school teachers.** Devised by F. B. Knight and R. H. Franzen. *Address:* University of Iowa, Iowa City, Iowa.
- Prognostic tests of stenographic ability.** For Grades X, XI, XII. Devised by E. R. Hoke. *Published by* Gregg publishing co., Chicago, Ill.
- Rogers' stenographic and typist test.** Devised by Margaret Jacques. *Published by* C. H. Stoelting co., 3037-47 Carroll Ave., Chicago, Ill.
- Standard measurement scale for manual arts.** For Grades I-IX. Devised by F. M. Leavitt. *Published by* Bruce publishing co., Chicago, Ill.
- Stenquist's mechanical information and aptitude tests.** Devised by J. L. Stenquist. *Published by* World book company, Yonkers-on-the-Hudson, N. Y.
- Stenquist's tests for mechanical ability (United States Army).** Devised by J. L. Stenquist. *Published by* C. H. Stoelting co., 3037 Carroll ave., Chicago, Ill.
- Test for knowledge of tools.** *Published by* Public schools of Jackson, Mich.
- Test in mechanics.** (Information not complete.) Devised by D. P. Randall, J. C. Chapman and C. W. Stutton. *Address:* Western reserve university, Cleveland, Ohio.
- Tests for journalistic aptitude.** (Freshmen college.) Devised by Max Freyd. *Address:* University of Washington, Seattle, Wash.
- Thurstone's employment test.** Devised by L. L. Thurstone. *Published by* World book company, Yonkers-on-the-Hudson, N. Y.
- Thurstone's general technical tests.** For secondary schools and colleges. Devised by L. L. Thurstone. *Published by* Carnegie institute of technology, Pittsburgh, Pa.
- Thurstone's vocational guidance tests.** (Algebra, arithmetic, geometry, physics, and technical information.) Devised by L. L. Thurstone. *Published by* World book company, Yonkers-on-the-Hudson, N. Y.
- Trade test.** Devised by J. C. Chapman. *Published by* Henry Holt company, New York City.
- Vocabulary test in Gregg shorthand.** Devised by Elmer Hoke. *Published by* Gregg publishing company, Chicago, Ill.
- Vocational tests IX, XI, XIII, XIV, and interest analysis.** For high school and college. Devised by Bureau of personnel research, Carnegie Institute, Pittsburgh, Pa.
- Williams-Knapp scale for measuring skill in machine sewing.** Devised by Florence Williams and C. B. Knapp. *Address:* University of Chicago, Chicago, Ill.

MISCELLANEOUS.

- Athletic badge test.** For elementary and secondary schools. *Published by* Playground and recreation association, New York City.
- Athletic badge test for boys.** Athletic badge test for girls. *Published by* Athletic badge committee of the Playground and recreation association of America, New York City.
- Baldwin's physical development scale.** For elementary and secondary schools. Devised by B. T. Baldwin. *Address:* University of Iowa, Iowa City, Iowa.
- Butterworth school building score card for one-teacher school buildings.** Devised by J. E. Butterworth. *Published by* World book company, Yonkers-on-the-Hudson, N. Y.
- Citizenship.** Upton-Chassell. A scale for measuring the importance of habits of good citizenship. Devised by S. M. Upton, C. F. Chassell, and L. M. Chassell. *Reference:* Teachers college record, 23: 52-79, January, 1922.
- Comparison test.** For investigating the ideational concepts of moral concepts. Devised by R. A. Brotemarkle. *Published by* C. H. Stoelting and co., 3037 Carroll ave., Chicago, Ill.
- Courtis standard research tests.** Test questions given in 1,845 to pupils in the first classes of the Boston public schools. Adapted by O. W. Caldwell and S. A. Courtis, 82 Eliot Street, Detroit, Mich.
- Downey will-profile.** Devised by J. E. Downey. *Address:* University of Wyoming, Laramie, Wyo.

- Downey will-temperament test.** Two forms, one for group, the other an individual test. For secondary schools and business institutions and colleges. Devised by J. E. Downey. Published by World book company, Yonkers-on-the-Hudson, N. Y.
- Ethical discrimination test.** For use in courts, corrective institutions and schools, etc. Devised by S. C. Kohs. Published by C. H. Stoelting co., 3037 Carroll avenue, Chicago, Ill.
- Farmers' general information test.** Devised by H. A. Toops. Address: Teachers college, Columbia university, New York City.
- Franz's neurological and psychiatry tests.** Published by C. H. Stoelting co., 3037 Carroll ave., Chicago, Ill.
- Guide to grading of homes.** Devised by J. H. Williams. Reference: Whittier state school department of research bulletin no. 7.
- Guide to grading of neighborhoods.** Devised by W. S. Clark and J. H. Williams. Reference: Whittier state school department of research bulletin no. 8.
- Hartshorne's scale for measuring growth in religion.** For Grades II-VIII. Devised by Hugh Hartshorne. Address: Union theological seminary, New York City.
- Illinois examination.** Tests of intelligence, arithmetical operations, and silent reading. Examination I for Grades III to V. Examination II for Grades VI-VIII. Devised by W. S. Monroe and B. R. Buckingham. Published by Public school publishing company, Bloomington, Ill.
- Information on sports and amusements.** For Grades V to college. Devised by S. L. Pressey and L. C. Pressey. Address: Ohio State university, Columbus, Ohio.
- Interest questionnaire.** For Grade V to college. Devised by S. L. Pressey and L. C. Pressey. Address: Ohio State university, Columbus, Ohio.
- Kelley's interest tests.** Devised by T. L. Kelley. Reference: Teachers college contributions to education, no. 71, 1914.
- Kent-Rosanoff association tests.** Devised by G. H. Kent and A. J. Rosanoff. Published by John Wiley and son, inc.
- Laycock test of Biblical information.** Twelve years of age and over. Devised by S. R. Laycock. Address: University of Alberta book store, Edmonton, Canada.
- Lippincott-Chapman: Classroom products survey tests.** (Two tests.) For Grades V-VIII. Devised by J. C. Chapman. Published by J. B. Lippincott co., 227 S. Sixth st., Philadelphia, Pa.
- New Jersey composite test.** For Grade V. Devised by R. L. Schaeffer and others. Address: Trenton, N. J.
- Otis classification test.** Forms A and B for Grades IV to VIII. (Combination of an intelligence test and an achievement test.) Devised by A. S. Otis. Published by World book co., Yonkers-on-the-Hudson, N. Y.
- The physical test of a man.** Devised by A. D. Sargent. Address: Cambridge, Mass. Reference: School and society, 13: 128-35, January 29, 1921.
- Pressey's scale of attainment no. 2.** Tests in history, arithmetic, reading, vocabulary and English composition. For Grade VIII. Devised by S. L. Pressey and L. C. Pressey. Published by Indiana university, Bloomington, Ind.
- Third-grade attainment scale.** For measuring essential achievement in the third grade. Devised by S. L. Pressey and L. C. Pressey. Published by Public school publishing company, Bloomington, Ill.
- Pressey's X-O tests.** Tests for investigating the emotions. "A" adult, "B" children. Devised by S. L. Pressey and L. C. Pressey. Published by C. H. Stoelting co., 3037 Carroll ave., Chicago, Ill.
- Psychiatric tests.** Devised by A. J. Rosanoff. Published by C. H. Stoelting co., 3037 Carroll ave., Chicago, Ill.
- Rapeer's scale for measuring physical education.** Health and physical development. For elementary schools. Devised by L. W. Rapeer. Address: Washington, D. C.
- Rugg's rating scale for judging high school students.** To measure qualities not measured by the usual standard tests. Devised by H. O. Rugg. Address: University of Chicago bookstore, 5802 Ellis ave., Chicago, Ill.
- Rugg's rating scale for judging teachers in service.** Self-administering. Devised by H. O. Rugg. Address: University of Chicago bookstore, 5802 Ellis ave., Chicago, Ill.

- Scale for measuring personal and social behavior.** Health, habits, and accident prevention. For Grades I-XII. Devised by E. G. Payne. *Published by* Public school publishing company, Bloomington, Ill.
- Second-grade attainment scale.** (Tests in spelling, reading and arithmetic.) Devised by L. C. Pressey. *Published by* Public school publishing company, Bloomington, Ill.
- Speech measurement.** Devised by Smiley Blanton, M. G. Blanton, and S. M. Stinchfield, University of Wisconsin. *Published by* C. H. Stoelting-co., 3037 Carroll Ave., Chicago, Ill.
- Standards in physical training.** For Grades V-VIII. Devised by F. J. Reilley. *Published by* D. C. Heath company, Chicago, Ill.
- Stanford achievement tests.** For Grades II and III and advanced examination for Grades IV to VIII. Devised by T. L. Kelley, G. M. Ruch, and L. M. Terman. *Published by* World book company, Yonkers-on-the-Hudson, New York.
- Strayer-Engelhardt score card for elementary school buildings.** Devised by G. D. Strayer and N. L. Engelhardt. *Address:* Teachers college, Columbia university, New York.
- Strayer-Engelhardt score card for high school buildings.** Devised by G. D. Strayer and N. L. Engelhardt. *Address:* Teachers college, Columbia university, New York City.
- Strayer-Engelhardt score card for village and rural school buildings of four teachers or less.** Devised by G. D. Strayer and N. L. Engelhardt. *Address:* Teachers college, Columbia university, New York City.
- A test for memory of names and faces.** Devised by R. L. Gould. *Address:* Division of cooperative research, Carnegie institute of technology. Pittsburgh, Pa.
- Test of religious ideas involving ranking of selected answers.** Devised by C. F. Chassell and L. M. Chassell. *Reference:* Religious education, February, 1922.
- Tests of esthetic appreciation.** Devised by E. L. Thorndike. *Reference:* Journal of educational psychology 7: 509-23, 1916.
- Thorndike tests for measuring disciplinary values.** Devised by E. L. Thorndike. *Address:* Institute of educational research. Teachers college, Columbia university, New York.
- United States immigration bureau tests (Knox).** *Published by* C. H. Stoelting co., 3037 Carroll ave., Chicago, Ill.
- Whitley biblical knowledge test.** Devised by M. T. Whitley. *Address:* Teachers college, Columbia university, New York City.
- Witham teacher measurement.** Devised by Ernest Witham. *Address:* Southington, Conn.

PART VI.—SUPPLEMENTARY LIST OF MORE RECENT TESTS.

ARITHMETIC.

- Price's diagnostic test of processes of working with common fractions and mixed numbers.** For Grades VI-VIII. Devised by E. D. Price. Address: Public schools, Enid, Okla.
- Schorling-Clark practice exercises for accuracy and speed in the fundamentals of arithmetic.** (Preliminary edition.) For Grades VII-VIII. Devised by Raleigh Schorling and John R. Clark. Published by Lincoln school, Teachers college, Columbia university, New York City.
- Stevenson's problem analysis test.** Two forms of each test. For Grades IV-VI and VII-IX. Devised by P. R. Stevenson. Published by Public-school publishing company, Bloomington, Ill.

BIOLOGY.

- Ruch-Cossmann form B.** Devised by G. M. Ruch and Leo Cossmann. Published by Bureau of educational research, University of Iowa, Iowa City, Iowa.

CHEMISTRY.

- Rich's chemistry test, Gamma and Epsilon.** Devised by S. G. Rich. Published by Public-school publishing company, Bloomington, Ill.
- Testing laboratory resourcefulness.** Devised by H. A. Webb. Address: Department of chemistry, George Peabody college for teachers, Nashville, Tenn.

COMPOSITION.

- Diagnostic tests in English composition: (a) capitalization.** For Grades VII-XII, College. Devised by S. L. Pressey and Mrs. E. V. Bowers. Published by Public-school publishing company, Bloomington, Ill.
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- Inglis tests of English vocabulary.** Forms A. and B. Devised by Alexander Inglis. Published by Ginn and Company, Boston, Mass.
- North Carolina exercises in judging English prose.** Prepared by Bureau of educational research, School of education, University of North Carolina, Chapel Hill, N. C.
- Van Wagenen English composition scales.** For Grades VII-VIII, and secondary schools. Devised by M. J. Van Wagenen. Published by World book company, Yonkers-on-Hudson, N. Y.

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- Buckingham-Stevenson information-problem test in United States geography.** Two forms. For Grades VI-IX. Devised by B. R. Buckingham and P. R. Stevenson. Published by Public-school publishing company, Bloomington, Ill.
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Olmsted's diagnostic geography test. For Grades VII-VIII. Devised by M. C. Olmsted. Published by M. C. Olmsted, Junior high school, Clarkston, Wash.

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Courtis practice tests in handwriting. For Grades III-VIII. Devised by S. A. Courtis. Address: S. A. Courtis, 1807 East Grand Boulevard, Detroit, Mich.

HOME ECONOMICS.

Chart for diagnosing defects in buttonholes. Devised by Hazel K. Stiebeling and Dean A. Worcester. Published by Bureau of educational measurements and standards, Kansas State normal school, Emporia, Kans.

Home economics test. Function and classification of foods. Devised by Grace P. McAdam, Detroit public schools, Detroit, Mich.

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Iowa entrance examination. Part 3 for high school. Devised by R. M. Ruch and others. Published by Extension division, University of Iowa, Iowa City, Iowa.

Morgan's mental test. Devised by J. B. Morgan. Published by the Clio press, Iowa City, Iowa.

Ohio bureau of juvenile research intelligence tests. Devised by Ohio bureau of juvenile research. Address: Ohio bureau of juvenile research, Columbus, Ohio.

Rhode Island intelligence tests. For pre-school and kindergarten children. Devised by G. E. Bird and C. E. Craig. Published by Public school publishing co., Bloomington, Ill.

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- Oregon history test.** Devised by E. H. Hedrick and W. C. Hoppes. *Distributed by J. A. Churchill, Supt. of public instruction, Salem, Oreg.*
- Test on the historical content and background of Caesar's Gallic war.** For high school. Devised by S. B. Davis and E. E. Hicks, University of Pittsburgh, Pittsburgh, Pa.
- Witham comprehensive seventh-grade history tests.** Devised by E. C. Witham. *Published by J. L. Hammett company, Cambridge, Mass.*

PHYSICS.

- Iowa physics test. Mechanics, heat, electricity.** Devised by H. L. Camp. *Published by Public school publishing company, Bloomington, Ill.*
- New types of high-school physics tests for instructional purposes.** For high school. Devised by E. R. Glenn and E. S. Obourn. *Address: 425 West 123d Street, New York City. (In mimeographed form.)*

READING.

- Lippincott's continuous passage reading test.** For Grades IV-VIII. Devised by J. C. Chapman. *Published by J. B. Lippincott company, Philadelphia, Pa.*
- Courtis standard practice tests in reading.** For Grade I. Devised by S. A. Courtis, Regenia Heller, and N. B. Smith. *Published by World book company, Yonkers-on-Hudson, N. Y.*
- Examination for chapters 1 to 22 of Robinson Crusoe.** For Grades III-VI. Devised by L. C. Pressey. *Published by Public-school publishing company, Bloomington, Ill.*
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- Group test in word recognition. Reading test I.** For Grades I-II. Devised by E. F. Oglesby, P. T. Rankin and S. A. Courtis. *Address: Detroit public schools, Detroit, Mich.*
- I. E. B. special reading test.** For high school. Devised by E. L. Thorndike for The classical league of America.
- Narrative reading scale.** For junior high school. Devised by C. R. Stone and L. C. Murphy. *Published by Public-school publishing company, Bloomington, Ill.*
- Natural group test in reading.** For Grade IV. Devised by R. G. Jones and J. C. Foss. *Published by Dobson-Evans company, Columbus, Ohio.*
- Parker-Detroit reading tests.** For Grades II-IX. Devised by C. M. Parker. *Address: Detroit public schools, Division of instructional research, Detroit, Mich.*
- Standardized oral reading check test.** For Grades I-VIII. (Sets I-IV.) For Grades I-VIII. Devised by W. S. Gray. *Published by Public-school publishing company, Bloomington, Ill.*
- Test for measuring the ability of reading. Test II.** For Grades VI-IX. Devised by Charles Fordyce. *Published by Extension division, University of Nebraska, Lincoln, Nebr.*
- Van Wagenen reading scales. English literature. Scale A.** Devised by M. J. Van Wagenen. *Published by Public-school publishing company, Bloomington, Ill.*

SCIENCE.

- Ruch-Popencoe general science test.** For Grades VII-IX. Devised by R. M. Ruch and H. F. Popencoe. *Published by World book company, Yonkers-on-Hudson, N. Y.*

VOCATIONAL.

- Bureau of personnel research. Test XIII, business information; Test XIV, meeting objections.** Devised by Bureau of personnel research. *Published by Carnegie institute of technology.*
- O'Rourke's series of vocational guidance tests. Mechanical aptitude test.** For junior grade. Devised by L. J. O'Rourke. *Published by U. S. Civil service commission, Washington, D. C.*

Series of tests in Gregg shorthand. Tests C1-10, vocabulary. Devised by Elmer Hoke. *Published by Gregg publishing company, New York City.*
Thurstone's typist test. Devised by L. L. Thurstone. *Published by World book company, Yonkers-on-Hudson, N. Y.*

MISCELLANEOUS.

- Behavior score card.** *Published by Education division, Board of education, Chicago, Ill.*
- Drew tests in religious education.** For Grades III-VIII. Devised by C. F. Chassell.
- Function of ideals in education.** For junior and senior high school. Devised by P. C. Voelker. *Published by Bureau of publications, Teachers college, Columbia university, New York City.*
- Mendenhall clergyman-rating and self-improvement scale.** Devised and distributed by E. N. Mendenhall, director of Cooperative bureau of educational research, State manual training normal school, Pittsburg, Kans.
- Multiple-choice of religious ideas.** For Grades V-XII. Devised by W. S. Athearn. *Published by Committee on social and religious survey, 307 Seventh Avenue, New York City.*
- Plymouth educational tests.** For all grades. *Published by Plymouth press, 6749 Wentworth Avenue, Chicago.*
- Schutte's scale for rating teachers.** Devised by T. H. Schutte. *Published by World book company, Yonkers-on-Hudson, N. Y.*
- Score-card for one-teacher rural school buildings.** Devised by P. R. Stevenson and E. J. Ashbaugh. *Address: Bureau of educational research, Ohio state university, Columbus, Ohio. (In preliminary form.)*
- Starbuck-Mendenhall character rating scales.** For Grades III-VIII. Devised by E. D. Starbuck and G. N. Mendenhall. *Address: E. D. Starbuck, University of Iowa, Iowa City, Iowa.*
- Test of information and judgment on international affairs.** (Revised edition.) Devised by J. C. Manry, University of Iowa, Iowa City, Iowa.

**PART VII. PERIODICALS (INCLUDING BULLETIN SERIES)
CITED IN THIS BIBLIOGRAPHY.**

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- American school board journal. Bruce publishing co., Milwaukee, Wis.
British journal of psychology. Cambridge university press, London, England.
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Christian education. 111 Fifth ave., New York City.
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Educational research bulletin. Bureau of educational research, Ohio State university, Columbus, Ohio.
Educational review. Doubleday Page and co., Garden City, N. Y.
Elementary school journal. University of Chicago, Chicago, Ill.
General science quarterly. Salem, Mass.
Journal of abnormal psychology. Richard G. Badger, 194 Boylston st., Boston, Mass.
Journal of applied psychology. Clark university, Worcester, Mass.
Journal of delinquency. California bureau of juvenile research, Whittier State school, Whittier, Calif.
Journal of educational method. World book company, Yonkers-on-the-Hudson, N. Y.
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Journal of educational research. Public school publishing company, Bloomington, Ill.
Journal of experimental psychology. Psychological review company, Lancaster, Pa.
Journal of heredity. American genetic association (editorial office), Washington, D. C.
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Journal of psycho-asthenics. American association for the study of the feeble-minded, New Hampshire school for the feeble-minded, Laconia, N. H.
Journal of rural education. National education association, Montpelier, Vt.
Kentucky high-school quarterly. University of Kentucky, Lexington, Ky.
Mental hygiene. National committee for mental hygiene, 27 Columbia street, Albany, N. Y.
Nineteenth yearbook of the National society for the study of education. Public school publishing company, Bloomington, Ill.
Ohio teacher. Ohio teacher publishing company, Columbus, Ohio.
Pennsylvania school journal. Pennsylvania State education association, Harrisburg, Pa.
Pomona college quarterly magazine. Pomona college, Pomona, Calif.
Psychological bulletin. Psychological review company, Princeton, N. J.
Psychological clinic. Psychological clinic press, Philadelphia, Pa.
Psychological monographs. Psychological review company, Princeton, N. J.
Publications of Pennsylvania institute for instructors of the blind, Overbrook, Pa.
The School (Toronto). Ontario college of education, University of Toronto, Toronto, Ontario.
School and society. Science press, Grand central terminal, New York terminal, New York City.
School index. Cincinnati board of education, Cincinnati, Ohio.
School review. University of Chicago, Chicago, Ill.
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Smith alumnae quarterly. Alumnae association of Smith College, Rumford bldg., Concord, N. H.
Society for the promotion of engineering education. Engineering education, Lancaster, Pa.
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The techne. State manual training normal school, Pittsburg, Kans.
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INDEX.

- Accomplishment quotient, 170.
 Achievement quotient, 170.
 Algebra (miscellaneous) tests, 47.
 Algebra tests, 45-47, 202.
 Arithmetic (miscellaneous) tests, 58.
 Arithmetic tests, 47-64, 202-204, 224.
 Army group intelligence examination, alpha, 8-12, beta, 12-13.
 Army group intelligence examinations, alpha and beta, 12.
 Assignment and promotion, 124-126. *See also* Child accounting; Classification of pupils for instructional purposes.
 Atypical children tests, 155-159.
 Ayres handwriting scale, Gettysburg edition, 68-69.
 Ayres spelling scale, 91-93.
 Ayres-Starch spelling scale, 93.
 Ballou achievement test of pupils in addition of fractions, 47.
 Barr diagnostic test in American history, 71.
 Bell-McCollum test in history, 71.
 Bell test in first-year chemistry, 58.
 Binet-Simon test, 13-14.
 Biology tests, 204, 224.
 Boston geography test, 65.
 Boston minimum spelling lists (Ballou), 93.
 Boston test in accurate copying, 84.
 Boston tests, addition of fractions, 47.
 Botany tests, 204.
 Briggs English form test, alpha, 58-59.
 Brown Latin tests, 74.
 Brown silent reading test, 76.
 Brown University psychological examination, 14-15.
 Buckingham extension of the Ayres spelling scale, 93-94.
 Buckingham scale for problems in arithmetics, 47.
 Buckingham spelling scale, 94.
 Bulletin series, 229.
 Burgess scale for measuring ability in silent reading, 76.
 Camp scales for measuring results of physics teaching, 75.
 Charters diagnostic language and grammar tests, 73.
 Charts and devices, 171-172.
 Chemistry tests, 58, 204-205, 224.
 Child accounting, 159-161. *See also* Assignment and promotion; Classification of pupils for instructional purposes.
 Clapp standard school test in correct English, 64.
 Clapp standard school tests for upper arithmetic, 47.
 Classification of pupils for instructional purposes, 119-124.
 Cleveland survey arithmetic tests, 47-48.
 Colleges and universities, 194-198.
 Composition (miscellaneous) tests, 63-64.
 Composition tests, 58-64, 205-206, 224.
 Correlation tests, 164-169.
 Courtis research tests in silent reading, 77-78.
 Courtis standard practice tests in arithmetic, 48.
 Courtis standard research test, series B, 48-52.
 Courtis standard supervisory test in geography, 65.
 Dalman algebra hurdles, 45.
 Dearborn group intelligence tests, 15-16.
 Dearborn-Westbrook silent reading tests, 78.
 Delinquent children, tests, 155-156.
 Derivations of tests, 112-116.
 Detroit first-grade intelligence tests, 16.
 Diagnosis and prognosis, 127-138.
 Douglass standardized diagnostic test for elementary algebra, 45.
 Downey will profile test, 100.
 Downey will temperament test, 100.
 Drawing tests, 64, 206.
 Educational quotient, 170.
 Educational tests, 45-98.
 Educational tests (miscellaneous), 96.
 Elementary schools, tests, 176-186.
 English tests, 64, 206. *See also* Composition.
 Fordyce scale for measuring achievements in reading, 78.
 Foreign language (general) tests, 207.
 Freeman chart for diagnosing faults in handwriting, 69.
 French tests, 65, 207.
 Functions (miscellaneous) tests, 161-163.
 Gaining public support, 155.
 General tests, 2-8.
 General characteristics of tests, 109-111.
 Geography tests, 65-66, 207, 208, 224, 225.
 Geometry tests, 66-67, 208.
 German tests, 208.
 Gifted children, tests, 156-157.
 Goddard revision of the Binet-Simon test, 16.
 Grammar tests, 67.
 Grammar and punctuation tests, 208.
 Gray oral reading test, 78-80.
 Gray score card for the measurement of handwriting, 69.
 Gray silent reading test, 80.
 Gregory language and grammar test, 67.
 Haggerty intelligence examination, 16-17.
 Haggerty reading examination, 80.
 Hahn-Lackey geography scale, 65-66.
 Handschin modern language test (silent reading test B, French), 65.
 Handwriting tests, 68-71, 209-210, 225.
 Harlan test for information in American history, 72.
 Harvard-Newton composition scale, 59.
 Henmon French tests, 65.
 Henmon Latin tests, 74.
 Herring revision of the Binet-Simon test, 17.
 Herring tests in scientific thinking, 90.
 High schools, tests, 189-194.

- Hillegas scale for measurement of English composition by young people, 89.
- History tests, 71-73, 226; American, 210-211; ancient, 210; (general), 210.
- Hoke shorthand tests, 96.
- Holley picture completion test for primary grades, 17.
- Holley sentence vocabulary scale, 61.
- Hollywood arithmetic scale, 52.
- Holmes penmanship test, 60.
- Home economics tests, 73, 226.
- Holt algebra scales, 45-46.
- Hudson English composition scale, 60.
- Illinois general intelligence scale (Monroe-Buckingham), 47-48.
- Illinois standardized algebra tests, 46.
- Improvement of classroom instruction, 133-141.
- Indiana University group tests for measuring observational learning and accuracy of report, 100.
- Indiana University intelligence scale, schedule D, 18-19.
- Intelligence quotient, 170.
- Intelligence tests, 8-45, 211-215, 226.
- Intelligence tests (miscellaneous), 33-39.
- Introduction, 1-2.
- Iowa dictation exercise and spelling tests (Ashbaugh), 94.
- Jones one hundred spelling demons, 94.
- Jones scale for teaching and testing elementary reading, 81.
- Junior high schools, tests, 188-189.
- Kansas silent reading test, 21-62.
- Kelley completion exercises, alpha and beta, 10.
- Kent-Rosanoff association test, 45.
- Kindergarten, tests, 173.
- Kingsbury primary group intelligence test, 19.
- Knight-Franzen trade test for elementary school teachers, 99.
- Kuhlmann revision of the Binet-Simon test, 19.
- Language tests, 73-74, 215.
- Latin tests, 74, 215-216, 226.
- Lewis scale for measuring special types of English composition, 60.
- Limitations of tests, 111-112.
- List of tests, 202-223.
- Lohr-Latshaw Latin form test, 74.
- Mathematics test, 75, 216.
- Measuring progress, 141-144.
- Measuring teaching, 153-154.
- Miller mental ability test, 19.
- Minnick geometry tests, 68.
- Miscellaneous tests, 200-201, 221-223, 227.
- Modification of the curriculum, 150, 151.
- Monroe diagnostic tests in arithmetic, 52-53.
- Monroe standardized reasoning test in arithmetic, 53-54.
- Monroe standardized research algebra tests, 46.
- Monroe standardized silent reading test, 53-55.
- Monroe timed sentence spelling tests, 95.
- Murdock scale for measuring certain elements in hand sewing, 73.
- Music tests, 75, 216, 226.
- Myers mental measure, 19.
- Nassau County supplement to the Hillegas scale, 60.
- National intelligence test, 20-21.
- New York City penmanship scale, 70.
- Normal schools, tests, 194.
- Noyes language tests, 74.
- Objectivity of tests, 103.
- Otis group intelligence scale, 21-23.
- Performance tests, 40-41.
- Periodicals, list, 228.
- Physics tests, 75-76, 216-217, 226.
- Pintner educational survey test, 23.
- Pintner mental survey test, 24.
- Pintner nonlanguage mental test, 24.
- Poetry test, 217.
- Portens social rating scale, 100.
- Portens test for mental deficiency, 24.
- Primary schools, tests, 173-175.
- Pressey first-grade reading vocabulary test, 86.
- Pressey mental survey scale No. 1, schedule D, 26-27.
- Pressey mental survey scale, cross-out tests, 24-25.
- Pressey mental survey test, primer scale, 25-26.
- Pressey X-O tests for investigating the emotions, 101.
- Psychological tests, 41-43, 100-102.
- Rating pupils, 154-155.
- Reading tests, 76-90, 217-218, 226.
- Recent tests, supplementary list, 224-227.
- Reliability of tests, 103-106.
- Rogers sextet for diagnosing mathematical ability, 75.
- Rugg-Clark standardized practice exercises in first-year algebra, 46.
- Rugg-Clark standardized test in first-year algebra, 46.
- Rural schools, tests, 186, 187.
- Sackett scale in ancient history, 72.
- Sackett scale in United States history, 71.
- Scale to measure habits of good citizenship, 100.
- Science tests, 90, 218, 226.
- Score cards for school buildings, 99, 100.
- Seashore measures of musical talent, 75.
- Seashore musical talent chart, 75.
- Sensory defectives, 157.
- Seven spelling scales for high school, 95.
- Shorthand tests, 96.
- Spanish tests, 90, 218.
- Special schools and classes, 198, 199.
- Spelling tests, 91-96, 219.
- Standardization and norms, 116-119.
- Stanford revision of the Binet-Simon tests, 27-33.
- Starch American history test, 72.
- Starch arithmetic tests, 54.
- Starch English grammar tests, 67.
- Starch grammatical scale A, 62.
- Starch handwriting scale, 70.
- Starch physics test, 75.
- Starch punctuation scale A, 67.
- Starch silent reading test, 86.
- Starch spelling test, 95.
- Starch-Watter Latin tests, 74.
- State institutions, 199-200.
- Statistical treatment of test data, 163, 164.
- Stenquist mechanical aptitude tests, 98.
- Stone arithmetic tests for the fundamental operations, 54.
- Stone standardized reasoning test in arithmetic, 54, 55.

- Strayer-Engelhardt score card for city school buildings, 99.
- Studebaker practice exercises in arithmetic, 55.
- Subnormal children tests, 157-159.
- Surveying school systems, 147-150. *See also* Testing programs.
- Tabulation of scores, 170, 171.
- Teacher rating scale, 98, 99.
- Terman group test of mental ability, 33-35.
- Testing programs, 151-153. *See also* Surveying school systems.
- Tests and scales (miscellaneous), 101, 102.
- Thompson minimum essentials in arithmetic, 55.
- Thorndike drawing scale for grades V-VIII, 64.
- Thorndike extension of the Hillegas scale, 61.
- Thorndike handwriting scale, 70, 71.
- Thorndike intelligence examination for high-school graduates, 35, 36.
- Thorndike-McCall reading scale for the understanding of sentences, 86, 87.
- Thorndike nonverbal intelligence scale, 36.
- Thorndike scale alpha 2 for measuring the understanding of sentences, 87, 88.
- Thorndike visual vocabulary scale, 89.
- Thurstone miscellaneous intelligence test, 38.
- Thurstone psychological examination for college freshmen and high-school seniors, 36.
- Trabue completion list language scales, 61-63.
- Trabue-Stockbridge mentimeter, 36, 37.
- Transmuting of scores, 169, 170.
- Types of schools, uses according, 173-201.
- Uses of tests. *See also* Assignment and promotion; Child accounting.
- Validity of tests, 106-109.
- Van Wagenen history scale, 72.
- Vocabulary test, 220.
- Vocational tests, 96-98, 220, 221, 226, 227.
- Vocational and educational guidance tests, 144-147.
- Voelker tests on trustworthiness, 101.
- Whipple group test for grammar grades, 37.
- Whittier scales for grading home and neighborhood conditions, 101.
- Willing scale for measuring written composition, 63.
- Witham standard geography tests, 66.
- Woody arithmetic scale, 55-57.
- Woody-McCall mixed fundamentals, 57.
- Yerkes-Bridges-Hardwick point scale for measuring mental ability, 37, 38.
- Yerkes-Rossy adolescent adult point scale for measuring mental ability, 38.