

A BIBLIOGRAPHY OF MENTAL TESTS
AND RATING SCALES

GERTRUDE H. HILDRETH, P.H.D.

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A BIBLIOGRAPHY OF MENTAL TESTS AND RATING SCALES

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THE PSYCHOLOGICAL CORPORATION

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PSYCHOLOGICAL

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FOREWORD

In its earlier days as a science, psychology was once wittily defined by Dr. J. McKeen Cattell as "whatever the psychologists work at." Since measurement is essential to science, it has been but natural that a goodly portion of the time of psychologists has been devoted to working 'at' and 'with' various measuring devices, of which the largest number are now commonly known as Mental Tests and Rating Scales.

The prolific production of these devices is a credit to the industry of psychologists, and to the science, in so far as the devices measure validly and reliably the things they purport to measure. The purpose of this volume is not to serve as a critique of tests or of the testing movement, but to meet the need for a handy first reference as to what measurements of this kind have been attempted and the devices that have been tried, or are now available. It thus serves usefully all who seek either to utilize such tools as now exist or to profit from the previous work of others in their own efforts to develop better tools.

Both by training and breadth of experience, Dr. Hildreth is particularly well qualified to have undertaken the laborious task of preparing a bibliography of this character. Psychologists and many workers in allied fields are in her debt for the years of painstaking work she has put into it. In its criteria of selection, form of classification, and completeness, the bibliography constitutes a real and lasting contribution.

In so far as the production and improvement of mental tests and rating scales represent the advancement of psychology as a science, this bibliography is significant as a record of progress. Its publication by the Psychological Corporation is appropriate in that the corporation's major purpose is "the advancement of psychology and the promotion of the useful applications of psychology."

PAUL S. ACHILLES,
Managing Director,
The Psychological Corporation

January, 1933

PREFACE

The rapid increase in recent years in the number of available tests and rating scales has greatly improved the facilities of the psychologist, educator and research worker for studying mental capacities and achievement, but has also enormously increased the task of locating available materials within a given field. The problem of locating a specific test item is often a baffling one. A comprehensive list of tests and rating scales is therefore indispensable for educational and psychological research work.

This list of tests originated as a card index in the psychological laboratory at The Lincoln School of Teachers College, Columbia University. As it grew and its general usefulness became increasingly apparent an effort was made to make it as complete as possible. Every available known source of information about tests and rating scales has been investigated, including psychological and educational literature, test bibliographies previously published, publishers' lists and library catalogs. Quite a few persons have been interrogated orally or through the mail, and every possible clue to new information has been traced with considerable persistence. The list may be considered approximately complete through December, 1932. It is not limited to American publications but includes many foreign titles, principally English, French and German. References to old, obscure and out of print materials have been included in order to make the list truly comprehensive. Such a list is of greater value to the research worker than a selected list of popular or more commonly used materials would be.

The list of tests is preceded by a list of the bibliographies consulted. These bibliographies contain a vast amount of descriptive material and some of the more comprehensive sources listed contain facsimile copies of test materials. Space is lacking in the present list for descriptive material, but the arrangement of the material in subject categories furnishes the investigator some information about the abilities, achievements and traits measured by any device. A subject, author and test title index facilitates the search for any particular item.

Without the assistance of a large number of professional colleagues, librarians and advisors the task of compilation would have been impossible of accomplishment. The library facilities of New York City alone contributed largely to the successful completion of the work. The opportunity to consult with foreign visitors at the Lincoln School concerning psychological research abroad has assisted in extending the list to international proportions.

I acknowledge with gratitude the assistance of Mrs. Eleanor Perry Wood of the Educational Records Bureau, Dr. Paul S. Achilles of the Psychological Corporation, New York City, Dr. Gladys Schwesinger of the Eugenics Research Association, New York City, the reference librarians of Teachers College, Columbia University, the Psychology Reading Room, Columbia University, and the New York Academy of Medicine, and of Mr. J. Murray Lee who made available his private file of six hundred tests in the secondary education field. Helpful criticism was given by Professors Rudolf Pintner and Henry E. Garrett of Columbia University. I am especially indebted to Mrs. Katharine L. Leslie whose intelligent assistance contributed so largely to the compilation of the original test file and to the preparation of the manuscript; and to Dr. Jesse H. Newlon, Director of the Lincoln School, under whose auspices the work was carried on.

GERTRUDE HILDRETH,

The Lincoln School of Teachers College

New York, October, 1932

INTRODUCTION

The extent to which the measurement movement has produced devices for the study of human traits is indicated by the number and variety of the tests and rating scales listed in this bibliography. Mental measurement has pervaded every sphere of human activity. Infants of a few weeks are subjected to the measurement of their capacities to give attention, to coordinate their movements, to smile and to vocalize. Prospective aviators are tested for sensory acuity, sense of direction and common sense, while students in every type of educational institution are regularly examined for scholastic aptitude and achievement.

Although the earliest tests antedate the present century, the majority of them have been devised since 1920. The increasing tendency to objectify observations in psychological experimentation, the application of scientific principles to education, the increasing popularity of appraisal and evaluation of educational products have been contributing factors in the progress of the testing movement. The problems brought about by mass education, the demands created by the World War for personnel study and vocational guidance, the growing interest in problems of personality measurement and adjustment have created an increasing demand for measurement devices.

In the early psycho-physical and psychological laboratories experimental procedures were developed that subsequently furnished patterns for modern measurement instruments. But for the most part modern testing devices are the direct outcome of a practical and objective psychology directed toward the study of problems of learning and behavior. Such study has been more concerned with outward manifestations of behavior than with the subjective analysis of inner mental states.

IMPORTANT CONTRIBUTIONS

A number of developments in mental measurement constitute landmarks of the movement, the chief of which are: the memory experiments of Meumann; the formulation of Weber's law; Wundt's experiments in the psychological laboratory; the questionnaires of G. Stanley Hall; Galton's observations of human traits, his studies of association of ideas, and the development of statistical techniques for expressing results in quantitative terms; the use by Ebbinghaus of completion tests for studying the mental responses of school children; the association experiments of Jung and Wertheimer; the development by Binet and Simon of scales for the measurement of intelligence and their subsequent adaptations by numerous workers both in America and abroad; Cattell's measurement

of Columbia freshmen; Woodworth's examination of children of different races at the World's Fair, St. Louis; the studies by Spearman of the nature and relationship of mental traits; Curtis' early work in the measurement of educational products; the appearance of the Thorndike English composition, handwriting and drawing scales; the development by Rossolimo of the psychological profile; Seashore's studies of musical talent; the army mental testing program in America; the early mental tests devised by Burt in England and Ferrari in Italy; Woodworth's neurotic inventory; the character studies of Hartshorne and May; and the introduction by Stern of the intelligence ratio for the statement of test results in comparable terms. Many of the devices developed by these workers have become classics in their field and have proved to be ingenious, reliable, practically useful and stimulating to more recent workers.

In 1905 appeared Meumann's article on intelligence tests of children in the *Volksschulen*, published in "Die Experimentelle Pädagogik," the first comprehensive description and summary of available techniques for the mental measurement of school children. This was followed in 1910 by the first edition of Whipple's *Manual*, a comprehensive handbook of psycho-physical and mental tests available at that time. For the first time all important references to tests were brought together in one volume.

To some extent the present list of tests constitutes a history of the measurement movement and of the various parts that different individuals, institutions, countries and cultures have played in efforts to study behavior. The present list also contains the vital statistics of measurement devices—their origin, growth and development. Devices for the measurement of personality and character traits have increased in numbers more phenomenally than tests in any other field, although devices for measuring all aspects of school work on elementary, high school and college levels have appeared with increasing frequency for a period of twenty-five years. The past five years show the largest growth ratio for school achievement and personality tests. This rapid increase in the number and variety of available tests and scales has been accompanied by evaluation and criticism of measurement methods, greater refinement in method and continued evaluation of results.

CRITERIA FOR THE SELECTION OF TESTS LISTED

The present list is not selective on the basis of comparative merit. Some tests are obviously better than others according to all acceptable standards, some have so little merit that they should obviously never have been published, others have long since gone out of date or have

been replaced by improved editions. But in order to make the record complete it is necessary to include in a truly comprehensive list all materials that have at any time been available. Even a comparatively inferior test according to all modern standards may be of some service to the research worker. The inclusion of a particular test here, therefore, does not imply that it necessarily has any particular merit, high reliability nor validity. Although standards are available for judging the merit of tests, these standards have not been applied as selective criteria for the present list. Descriptions of these tests are frequently found in magazine articles and copies may sometimes be located in test files.

Other criteria of selection were applied somewhat as follows: tests standardized with reference to method of administration in the sense that they admit of repetition by other examiners with other subjects, that were objective in character wholly or in part, that were intended for repeated use in the measurement of mental characteristics primarily for practical purposes or service functions, and tests that were generally available either from publishers or test distributors, or that were described adequately in professional journals were included, in contrast to materials that were almost wholly subjective in character, were designed solely for use in an isolated experiment, as for example, in the study of transfer of training or mental fatigue; were not standardized as to method of administration and were not available in satisfactory published form. Exceptions to these criteria were occasionally made as in the case of a few laboratory experiment techniques which have been historically important in the development of tests, or experimental techniques which give promise of developing into reliable testing instruments. A few materials, almost wholly subjective in character, have been included in the fields of testing less susceptible to objective measurement. Many of the character and personality rating scales included belong in this category, as well as rating scales for handwriting, aesthetic qualities, and written composition.

Techniques for measuring personality and character qualities by means of the psycho-galvanometer, the dynamometer, ergograph, sphygmometer, and similar apparatus have not been included chiefly because they measure complexes of physio-psychological responses from which the more purely psychological responses are with difficulty isolated, and because, for the most part, in spite of extensive and informative experimentation, they are still largely in experimental form, and their status as valid devices for mental measurement purposes is not yet fully proved. Such devices must not be overlooked by the investigator who is interested in all available means of measuring mental responses. The

techniques and apparatus involved constitute an important field of research in modern psychology.

Sensory tests are included only when they constitute an integral part of a battery or group of tests used as a whole. They are not included when used in isolation. Sensory acuity tests of the simpler variety have been excluded. The dividing line between sensory tests, physical tests, psychomotor tests and tests of the higher mental functions is difficult if not impossible to determine. Tests of such abilities as lung capacity, grip and aiming, may appear to be more largely physical than mental, yet all have mental reaction concomitants and some are reliable indices of emotional control and mental maturity. Tests of keenness of vision and hearing, optical illusions, reaction time, color-blindness and the like are omitted, although tests of handedness are included. It may be assumed that sensory tests more properly belong to the physical examination. Tests of psycho-motor capacities have generally been included unless they had almost nothing to contribute to the measurement of mental traits.

Learning tests that have become a part of psychological examining, as in the case of learning tests for the diagnosis of reading deficiencies and the determination of types and degrees of mental defect, have been included. For the most part, learning tests have been employed chiefly in learning experiments requiring successive testing over a period of time and have not been developed for routine examination of the ability of individuals to memorize. Research workers often use standardized mental tests as learning tests by repeating the test at the required intervals of time.

Differentiation as to the purpose for which testing materials were intended was observed in another criterion used in selection. Tests designed for no use beyond experimentation to determine psychological principles or laws were excluded, unless such tests had subsequently become standard testing materials in the laboratory or for general psychological service. However, an attempt has been made to include everything that has made an important contribution to method regardless of the ultimate value of the material or extent of use. Reference to psychological laboratory apparatus has been made only when such apparatus has been definitely related to testing procedures according to the criteria stated.

In so far as possible the list has been made international in scope. Naturally, not every test developed in a country other than America is known here, but the list may be considered fairly comprehensive with reference to foreign materials of which descriptions have appeared in educational and psychological literature.

Main

Materials designed primarily for instructional purposes have been omitted, although many of these materials have characteristics similar to those of standardized tests. Testing materials to be used in conjunction with teaching materials have been included. The point at which classroom tests leave off and tests begin is difficult to determine. The criteria of availability and purpose assist in making decisions in doubtful cases. Classroom tests not designed for repeated use have in general been excluded. Most of such tests are not in standardized and objective form and would have to be excluded on those grounds alone. Drill materials are included when they meet the criteria already stated, but not otherwise.

Although home and environment rating scales are in no sense direct measures of personality and character traits, they are included because they often afford valuable indirect evidence of behavior and capacity, and are commonly used in personality study.

Some of the tests listed here were published only for private use and had no general sale.

REFERENCES

Each reference in the bibliography given in conjunction with the name of a test is the reference which gives the most comprehensive description of the test or which includes a facsimile copy of the test. The list is not intended to include all available references concerning a test. References have not ordinarily been given when the test is at present directly obtainable from a publisher. Cross references have been made whenever necessary. It has not been feasible, however, to cross reference single tests included in scales such as the Binet, although Stern and Wiegmann have done this very completely in their publication. For the specific tests included in such scales and batteries the reader must consult references to the particular tests. The only exception to this rule is in the case of earlier classical tests which may for a time have been used singly rather than as parts of batteries. Although the test items have not been annotated, many of the references given contain both interpretative as well as descriptive material.

Occasionally when original copies of test materials were not available and when even original descriptions could not be obtained, references to abstracts have been given. In some cases references in the English language have been given in preference to references originally published in a less widely used language.

The reader may be unable to locate a particular test because of confusion in name. Occasionally a specific test is known by several different names as in the case of the Seguin board, known also as the Goddard, the Sylvester, the Norsworthy form board. The name most commonly

associated with a test has ordinarily been given. The listing of items is by author's name unless the test is better known by another title. Invariably the author's name has been included with the name of the test, if it could be located, even though it may seldom be heard in connection with the test. The index has been made as complete as possible to facilitate the finding of particular test items. The date given in each case is the date first mentioned in available publications. Dates difficult to determine with accuracy have been omitted. The age or grade range given in many cases is only approximate. A full list of the reference abbreviations used is given at the end of this section. The symbols and abbreviations of *L'Année Psychologique* and *Psychological Abstracts* have generally been adhered to.

CLASSIFICATION

Classification of the material has been difficult because of the variety of capacities tested by specific tests and because of the variety of purposes which many of the tests serve. A test used for measuring general mental ability might also be classified as a test for exceptional children, for vocational guidance, or for elementary school children. A "completion test" may at the same time be a personality test, a performance test, a high school level test, a reading test, or a reasoning test. A perception test may at the same time be a drawing test, a reading test, or a speech test depending upon the purpose for which the examiner was giving the test. As these illustrations indicate, any classification must necessarily be arbitrary. Frequent cross references bring some order out of chaos.

It has been suggested that all mental tests should avoid such designation as tests of "character," "intelligence," "reasoning," and the like, since all of these capacities overlap and the use of such terms strengthens the false notion that such categories are disparate and wholly independent, or mutually exclusive. Although such classification is wholly artificial, it is used for convenience in connection with the present list. In the classification scheme finally adopted, the chief categories are as follows: 1. Intelligence and mental processes. 2. Educational and scholastic aptitude and achievement. 3. Personality tests and rating scales. 4. Vocational aptitude, skills and achievement.

This classification is primarily a functional one. The classification corresponds with the purposes most commonly served by the tests listed.

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TESTS OF MENTAL CAPACITY—ELEMENTARY SCHOOL LEVELS*

Ages approximately 6-14

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TESTS OF MENTAL CAPACITY—HIGH SCHOOL LEVEL*

Ages approximately 14-18

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- General Classification Test, Senior Grade**, by L. J. O'Rourke. Range: high school senior and college freshman. Washington, D. C.: Educational and Personnel Publishing Company.
- Otis Group Intelligence Scale**, by A. S. Otis. Range: advanced examination for grades 5 to 12 or any adult. Yonkers: World Book Company, 1919.
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 7. Visual Memory of Geometric Pictures (Binet and Simon).
 8. Learning Test—Arbitrary Associations.
 9. Cross Line Test (A).
 10. Cross Line Test (B).
 11. Code Test.
 12. Memory from Visual Verbal Presentations.
 13. Memory from Auditory Verbal Presentation.
 14. Instruction Box (modification of J. W. Hayes Instruction Box).
 15. Association of Verbal Opposites.
 16. Motor Coordination Test.
 17. Writing.
 18. Arithmetic.
 19. Reading.
 20. Checkers.
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ATTENTION, ORIENTATION, PERCEPTION, FOLLOWING DIRECTIONS, AND AUSSAGE

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* For achievement tests in drawing, see **FINE ARTS TESTS—DRAWING SCALES AND AESTHETIC JUDGMENT**, pages 153-154.

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 - Test 7. Strength of Back
 - Test 8. Strength of Legs
 - Test 9. Endurance of Grip
 - Test 10. Quickness or Rate of Movement: Tapping
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ACHIEVEMENT TESTS

COMPOSITE, GENERAL AND UNCLASSIFIED

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- Metropolitan Achievement Tests, (New York City Edition)** by G. H. Hildreth, F. B. Graham, S. F. Bayne, edited by J. S. Orleans. Primary II Battery, New York City Edition. Range: grade 2 and 3. Yonkers: World Book Company, 1931.
- Metropolitan Achievement Tests, (New York City Edition)** by S. F. Bayne, F. B. Graham, edited by J. S. Orleans. Intermediate Battery, New York City Edition.

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Metropolitan Achievement Tests, (New York City Edition) by S. F. Bayne, F. B. Graham, edited by J. S. Orleans. Advanced Battery, New York City Edition. Range: grades 7 and 8. Spelling, vocabulary, reading, arithmetic, English literature, history, geography. Yonkers: World Book Company, 1932.

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Objective Tests in High School Subjects, by G. Miller. Algebra, Biology, Chemistry, Civics, English, French, History, Latin, Physics. Norman, Oklahoma: G. Miller, 1926.

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Omnibus Achievement Test, by C. W. Odell. Range: grades 6–8. Geography, history, arithmetic, language, and elementary science. Urbana: Bureau of Educational Research, University of Illinois, 1922.

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Ohio State University High School Content Examination. For college freshmen. Columbus: Department of Psychology, Ohio State University.

Ohio Literacy Test, by V. Foster and H. H. Goddard. Range: grades 1 through high school. Columbus: Department of Psychology, Ohio State University.

O'Rourke Attainment Tests, by L. J. O'Rourke. Includes tests of Vocabulary, Arithmetic Reasoning, Arithmetic Fundamentals, and Language. Washington, D. C.: Educational and Personnel Publishing Company.

Standard Graduation Examination for Elementary Schools, by A. S. Otis and J. S. Orleans. Spelling, reading, vocabulary, arithmetic, grammar, language usage, literature, history, geography. Yonkers: World Book Company, 1930, 1931.

Pintner's Educational Survey and Non-Language Mental Tests, by R. Pintner. See TESTS OF MENTAL CAPACITY—ELEMENTARY SCHOOL LEVELS, page 34.

Pintner Educational Achievement Test, by R. Pintner. Range: elementary grades. Arithmetic, spelling, information, vocabulary, reading. New York: Bureau of Publications, Teachers College, Columbia University, 1929, 1931.

- Scale of Attainment No. 1**, by the Department of Psychology, Indiana University. Spelling, reading, arithmetic. Range: grade 2. Bloomington: Department of Psychology, Indiana University, 1920.
- Pressey Scale of Attainment No. 2**, by S. L. Pressey. Reading vocabulary, American history, arithmetic and English grammar. Range: grade 8. Bloomington: Department of Psychology, Indiana University, 1921.
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- New Jersey Composite Test**, by R. L. Schaeffer and others. Range: grade 5. Trenton: Board of Education.
- Tests of Culture**, by T. Simon. Ref: Simon, T. Tests de culture. Bulletin de la Société Alfred Binet, 1930, 31, 1-6.
- Sones-Harry High School Achievement Test**, by W. W. D. Sones and D. P. Harry. Range: for secondary schools and college entrance. Yonkers: World Book Company, 1929.
- Stanford Achievement Test, Forms A. and B.**, by T. L. Kelley, G. M. Ruch and L. M. Terman. Range: primary examination-grades 2-3, reading, arithmetic, spelling; advanced examination-grades 4-8, reading, arithmetic, spelling, nature study and science, history and literature, language usage. Yonkers: World Book Company, 1922.
- New Stanford Achievement Test, Forms V, W, X, Y, and Z**, by T. L. Kelley, G. M. Ruch and L. M. Terman. Range: primary examination-grades 2-3, reading, arithmetic, spelling; advanced examination-grades 4-9, reading, spelling, arithmetic, language usage, literature, history, and civics, geography, physiology and hygiene. Yonkers: World Book Company, 1929.
- Ullman-Clark Test on Classical References and Allusions**, by B. L. Ullman and G. W. Clark. Range: grades 8-12. Iowa City: Bureau of Educational Research and Service, State University of Iowa, 1928.
- Unit Scales of Attainment**, by M. E. Branom, L. J. Brueckner, A. M. Jordan, P. Cutright, W. A. Anderson, M. G. Kelty, A. Dvorak and M. J. Van Wagenen. Includes tests in reading, arithmetic, language, spelling, geography, history, literature, and elementary science. Range: reading (only) 1st grade; reading (only) 2nd grade; division 1, grades 3 and 4; division 2, grades 5 and 6; division 3, grades 7 and 8; division 4, grade 9. Minneapolis: Educational Test Bureau, 1932.
- Individual Attainment Scale for Clinical Use**, by J. E. W. Wallin and M. Gilbert. Range: grades 1-8. Chicago: C. H. Stoelting Company. Ref: Wallin, J. E. W., and Gilbert, M. A brief educational attainment scale for clinical use. *PedSem*, 1927, 34, 441-489.

- Tests of Mathematical Knowledge and Natural Science**, by H. Winkler. Ref: Winkler, H. Tests für das mathematische und naturwissenschaftliche Gebiet. *PdPsArb*, 1924, 13, 101-116.
- Indiana Composite Achievement Test**, by W. W. Wright. Range: grades 7 and 8. Arithmetic, American history, Indiana history, civics, geography, language, reading, physiology, spelling. Bloomington: Bureau of Cooperative Research, Indiana University, 1927.
- Wyoming Uniform State Examinations**, by County Superintendents' Association Examination Committee. Range: grades 6-8. Geography, arithmetic, history, physiology-hygiene, agriculture, language and grammar, reading, civics. Rawlins, Wyoming: County Superintendents' Association, 1926.

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AGRICULTURE

- A Group Test on Dairy Husbandry Information**, by S. Dickinson. Ref: University of Missouri Bulletin, 20, No. 42. Education Series, 1929, No. 26.
- Vegetable Gardening Test**, by C. E. Gronemeyer. One of the National Agricultural Tests. Range: high school and college. State College, Pennsylvania: Rural Education Department, Pennsylvania State College, 1924.
- Farm Mechanics Information Test**, by W. F. Hall and V. A. Martin. One of the National Agricultural Test. State College, Pennsylvania: Rural Education Department, Pennsylvania State College, 1924.
- Farm Crops**, by W. M. Hendricks. One of the National Agricultural Tests. Range: high school and college. State College, Pennsylvania: Rural Education Department, Pennsylvania State College, 1924.
- Auburn Tests for Agricultural Information—Field Crops**, by P. Irvine and others. Range: high school. Auburn, Alabama: Alabama Polytechnic Institute, 1930. Ref: Alabama Polytechnic Institute Bulletin, 1930, 1, No. 2.
- Kansas State Teachers College Scholarship Contest Agriculture Test**. Emporia: Bureau of Educational Measurements and Standards, Kansas State Teachers College, 1927.
- National Agricultural Tests**, edited by C. E. Myers. Range: grade 8 through college. Vegetable Gardening Information Test, Farm Mechanics Information Test, Farm Crops Information Test, and Poultry Information Test. State College, Pennsylvania: Rural Education Department, Pennsylvania State College, 1924.
- Smith Agricultural Information Tests in Animal Husbandry**, by Z. M. Smith. Range: pupils studying animal husbandry. Indianapolis: State Director of Vocational Education.
- Waits Tests for Measuring Attainments in Agriculture for Rural Schools**, by L. A. Waits. Range: grades 7-12. New Philadelphia, Ohio: L. A. Waits.
- Poultry Information**, by A. D. Wilson. One of the National Agricultural Tests. Range: high school and college. State College, Pennsylvania: Rural Education Department, Pennsylvania State College, 1924.
- Indiana Agriculture Test**, by W. W. Wright. Range: grades 7-8. Bloomington, Indiana: Bureau of Cooperative Research, Indiana University. (In mimeographed form.)
- Wyoming Uniform State Examination—Agriculture**, by County Superintendents' Association Examination Committee. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 79.

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- Cooperative Professional Education Test.** New York: Cooperative Test Service, 1930, 1931.
- A Comprehensive Objective Examination for Graduate Students in Education,** by M. D. Engelhardt and W. S. Monroe. Ref: Engelhardt, M. D. Standard tests for students of education. EdAdSup, 1929, 15, 93-101.
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- Test of Outcomes of Instruction in the Technique of Teaching,** by M. E. Herriott. Ref: Herriott, M. E. One measure of outcomes of instruction in the technique of teaching. EdAdSup, 1929, 15, 514-518.
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- Standard Achievement Test on Educational Measurements,** by C. W. Odell. Bloomington, Illinois: Public School Publishing Company, 1932. Ref: Odell, C. W. A test in educational measurements. SchSoe, 1932, 35, 810-814.
- Odell Standard Achievement Test on Principles of Teaching in Secondary Schools,** by C. W. Odell. Range: teachers and student teachers. Bloomington, Illinois: Public School Publishing Company, 1927.
- Odell-Herriott Standard Achievement Test on Principles of Teaching in Secondary Schools,** by C. W. Odell and M. E. Herriott. Range: college and normal school. Bloomington, Illinois: Public School Publishing Company, 1926.
- Objective Tests to Accompany "Differentiated Assignments in Classroom Management,"** by E. M. Paulu. Boston: D. C. Heath and Company. Ref: Engelhardt, M. D. Standard tests for students of education. EdAdSup, 1929, 15, 93-101.
- Teachers' Views on some Problems in General Educational Theory.** New York: Bureau of Publications, Teachers College, Columbia University, 1931.
- Weber Standard Achievement Test on Aims, Purposes, Objectives, Attributes, and Functions in Secondary Education,** by J. J. Weber. Range: college. Bloomington, Illinois: Public School Publishing Company, 1925.

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PSYCHOLOGY AND PSYCHOLOGICAL MEASUREMENTS

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- College Psychology Tests,** by J. E. Bathurst and N. V. Scheidemann. Chicago: Bureau of Public Personnel Administration, 1927.
- Tests for Woodworth's "Psychology,"** by J. E. Bathurst and N. V. Scheidemann. Range: for college or university. Chicago: Bureau of Public Personnel Administration.
- Standardized Objective Examination on Woodworth's Revised "Psychology,"** by G. H. Estabrooks. Forms A and B. Hamilton, N. Y. Colgate University Placement Bureau, 1930.
- Geyer Objective Examination on Intelligence Testing,** by D. L. Geyer. Range: college. Chicago: Plymouth Press, 1922; revised, 1923.
- Harlan Technical Vocabulary Test in Psychology,** by C. L. Harlan. Range: college. 1926. Ref: Smith, H. L., and Wright, W. W. Second revision of the bibliography of educational measurements. Bulletin of the School of Education, Indiana University, 1927, 4, No. 2.
- A Test of Educational Psychology for Students of the Technique of Teaching,** by M. E. Herriott. Urbana: Bureau of Educational Research, University of Illinois.

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- A Test of General Psychology for Students of Educational Psychology**, by M. E. Herriott. Ref: Engelhardt, M. D. Standard tests for students of education. EdAdSup, 1929, 15, 93-101.
- A General Psychology Vocabulary Test**, by M. B. Jensen. Bowling Green: Western Kentucky State Teachers College, (experimental edition).
- Test of Practical Judgment on Problems in Child Welfare**, by H. E. Jones and A. E. White. Berkeley: Institute of Child Welfare, University of California, 1928. (Revision in process.) Mentioned by Conrad, H. S., and Harris, D. The free association method and the measurement of adult intelligence. University of California Publications in Psychology, 1931, 5, 1-45.
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- May Standardized Examination on Woodworth's "Psychology,"** by M. A. May. Boston: Henry Holt and Company. Ref: Kinder, J. S., and Odell, C. W. Educational tests for use in institutions of higher learning. University of Illinois Bulletin, 1930, 27, 44-45.
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- Mead Examinations in Educational Measurements**, by A. R. Mead. Range: teachers and prospective teachers. Ref: Mead, A. R. Suggestions for the training of teachers in the use of educational measurements. EdAdSup, 1926, 12, 23-43.
- Objective Psychology Tests**, by H. Meltzer and E. M. Bailor. Ref: Meltzer, H., and Bailor, E. M. Developed lessons for psychology including objective tests with norms. New York: Harcourt Brace and Company, 1929.
- Test in Educational Psychology**, by W. S. Miller. Ref: Miller, W. S. An objective test in educational psychology. JEdPs, 1925, 16, 237-246.
- Potthoff-Corey Test in Educational Psychology**, by E. F. Potthoff and S. M. Corey. Bloomington, Illinois: Public School Publishing Company, 1931.
- The College Psychology Test**, by D. Schmalhausen. Chicago: Bureau of Public Personnel Administration.
- Van Wagenen Reading Scales in Educational Psychology**, by M. J. Van Wagenen. Minneapolis: The Educational Test Bureau, 1929.
- Examination in Psychiatry**, by F. L. Wells. Ref: Wells, F. L. A short answer examination in psychiatry. JGenetPs, 1930, 37, 309-314.
- A Standardized Examination on Woodworth's "Psychology,"** by R. S. Woodworth. New York: Henry Holt and Company, 1931.

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TEACHER

- Anderson-Waples Classroom Procedure Test in English Composition**, by H. A. Anderson and D. Waples. Chicago: University of Chicago Press.
- Aptitude Tests for Elementary and High School Teachers**, by J. E. Bathurst, F. B. Knight, G. M. Ruch and F. Telford. Range: for college educational courses or elementary teachers. Chicago: Bureau of Public Personnel Administration, 1926.
- Subject Placement Tests for Elementary Teachers**, by J. E. Bathurst, F. B. Knight, G. M. Ruch and F. Telford. Range: elementary school teachers. Chicago: Bureau of Public Personnel Administration, 1926.
- Test of Professional Information for High School Teachers**, by C. W. Boardman. Ref: Boardman, C. W. Professional tests as measures of teaching efficiency in high school. TCConEd, 1928, No. 327.

- Breslich and Stone Classroom Procedure Test for Teachers of Mathematics**, by E. R. Breslich and C. A. Stone. Chicago: University of Chicago Press.
- Teachers' Interest Test**, by W. W. Coxe. Albany: University of the State of New York, Educational Measurements Bureau. Ref: Engelhardt, M. D. Standard tests for students of education. EdAdSup, 1929, 15, 93-101.
- Coxe-Orleans Prognosis Test of Teaching Ability**, by W. W. Coxe and J. S. Orleans. Yonkers: World Book Company, 1930.
- Classroom Procedure Test in Natural Science**, by H. A. Cunningham and D. Waples. Chicago: University of Chicago Press.
- Franzen-Knight Professional Test for Elementary School Teachers**, by R. H. Franzen and F. B. Knight. Range: elementary teachers. Iowa City: University of Iowa, 1922.
- George Washington University Teaching Aptitude Test**, by F. A. Moss, T. Hunt and F. C. Wallace, Washington, D. C.: Center for Psychological Service, 1927. Ref: Markt, A. R., and Gilliland, A. R. A critical analysis of the George Washington University teaching aptitude test. EdAdSup, 1929, 15, 660-666.
- Professional Information Test for Elementary and Junior High School Teachers**, by O. E. Hertzberg and — Whitney. (Mimeographed) State Teachers College, Buffalo, New York.
- Stanford Educational Aptitude Test**, by M. B. Jensen. Stanford University, California: Stanford University Press, 1929.
- A Professional Test for Teachers**, by J. C. Manry. Allahabad: Ewing Christian College, 1924.
- North's Objective Tests for Teachers in Typewriting**, by F. D. North. Range: teachers in training. New York: Gregg Publishing Company.
- Classroom Procedure Test in English Literature**, by L. Poley and D. Waples. Chicago: University of Chicago Press, 1928.
- Test of Teachers' Judgment in Child Discipline**, by N. Scheidemann. Chicago: C. H. Stoelting Company.
- Professional Questions for Elementary Teachers**, by E. W. Tiegs. Ref: Tiegs, E. W. An evaluation of some techniques of teacher selection. Bloomington, Illinois: Public School Publishing Company, 1928.
- Teachers' Professional Judgment Test**, by E. W. Tiegs and N. Scheidemann. Chicago: C. H. Stoelting Company, 1932.
- Waples-Reavis Classroom Procedure Test in General Method**, by D. Waples and W. C. Reavis. Range: teachers in junior and senior high school. Chicago: University of Chicago Press, 1926.
- Whitney-Hellman-Woody Entrance and Classification Examination for Teachers Colleges, English Section**. Greeley: F. L. Whitney, Colorado State Teachers Colleges. Ref: Kinder, J. S., and Odell, C. W. Educational tests for use in institutions of higher learning. University of Illinois Bulletin, 1930, 27, 30.
- Whitney-Hellman-Woody Entrance and Classification Examination for Teachers Colleges, Elementary Section**. Range: prospective elementary teachers. Greeley: F. L. Whitney, Colorado State Teachers College. Ref: Kinder, J. S., and Odell, C. W. Educational tests for use in institutions of higher learning. University of Illinois Bulletin, 1930, 27, 32.
- Classroom Procedure Test for Rating Teachers of History and the Social Studies**, by H. E. Wilson and D. Waples. Chicago: University of Chicago Press, 1928.
- School and Teacher Measurement**, by E. C. Witham. Baltimore: Warwick and York.

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UNCLASSIFIED

- American Library Association New Type Objective Examination Questions**, by American Library Association. Range: students taking library training technique. Chicago: American Library Association, 1926.

- Bureau of Public Personnel Administration—Test in Pathology**, by O. B. Hunter, T. Cajigas, and F. A. Moss. Range: persons studying pathology. Chicago: Bureau of Public Personnel Administration, 1925.
- Cooperative General Culture Test**. New York: Cooperative Test Service, 1930, 1931.
- An Intelligence Test for Parents**, by B. V. Cunningham. New York: The Parents Publishing Association, 1927.
- A Graphic Matching Test for Properties of Frequency Distribution**, by K. Hevner. Ref: Hevner, K. A graphic matching test for properties of frequency distributions. *JEdR*, 1931, 24, 365-371.
- Tests in Bacteriology**, by O. B. Hunter and F. A. Moss. See VOCATIONAL TESTS—SPECIFIC VOCATIONS, page 188.
- Rural Life**, by J. L. Hypes. Range: college students. Ref: Smith, H. L., and Wright, W. W. Second revision of the bibliography of educational measurements. Bulletin of the School of Education, Indiana University, 1927, 4, No. 2.
- Tests to Accompany Workbook in Sociology**, by C. H. Schettler and G. E. Simpson. New York: American Book Company, 1931.

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COMMERCIAL SUBJECTS

- Modern Bookkeeping Practice Objective Tests**, by N. Altholz and L. Braverman. Range: junior high school. Chicago: Lyons and Carnahan, 1929-1930.
- Philadelphia Standard Progressive Achievement Test in Bookkeeping**, by S. D. Birath. Range: high school. Philadelphia: Philadelphia Public Schools.
- Blackstone Stenographic Proficiency Tests—Stenography Test**, by E. G. Blackstone and M. W. McLaughlin. Yonkers: World Book Company, 1931, 1932.
- Blackstone Stenographic Proficiency Test—Typewriting**, by E. G. Blackstone. Range: grades 9 and 10. Yonkers: World Book Company.
- Bookkeeping Achievement Test**, by C. E. Bowman. New York: American Book Company, 1929.
- Bookkeeping Tests**, by P. A. Carlson. Cincinnati: South-Western Publishing Company, 1925.
- Clem Junior and Senior Typewriting Tests**, by J. E. Clem. Range: junior test for first year typewriting students; senior test for second year typewriting students. Bloomington, Illinois: Public School Publishing Company, 1931.
- Cody's Commercial Tests**, by S. Cody. Ref: Cody, S. Commercial tests and how to use them. Yonkers: World Book Company, 1920.
- The New Burgess' Commercial Law Diagnostic Tests**, by J. H. Cox. Range: high school and commercial law student. Chicago: Lyons and Carnahan, 1931.
- Denver Curriculum Test in Bookkeeping I**, by Denver Public Schools. Range: grades 9-12. Denver: Denver Public Schools, 1927.
- Denver Curriculum Test in Typewriting**, by Denver Public Schools. Range: grades 9-12. Denver: Denver Public Schools, 1927.
- Detroit Examinations in Bookkeeping**, by Department of Instructional Research, Detroit Public Schools. Range: high school. Detroit: Detroit Public Schools, 1926. Ref: Ruch, G. M., and Rice, G. A. Specimen objective examinations. Chicago: Scott, Foresman and Company, 1931, 260-266.
- Detroit Examination in Shorthand**, by Department of Instructional Research, Detroit Public Schools. Range: high school. Detroit: Detroit Public Schools, 1927. Ref: Ruch, G. M., and Rice, G. A. Specimen objective examinations. Chicago: Scott, Foresman and Company, 1931, 275-282.
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- Elwell-Fowlkes Bookkeeping Test**, by F. H. Elwell and J. G. Fowlkes. Range: grades 9-13. Yonkers: World Book Company, 1929.
- Elwell-Toner Bookkeeping Tests**, by F. H. Elwell and J. V. Toner. For chapters in "Bookkeeping and Accounting." New York: Ginn and Company, 1929.
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- Test of Secretarial Training**, by R. Hoadley. Ref: Hoadley, R. Testing teaching results in secretarial training. *Journal of Business Education*, 1930, 3, 25-29.
- Hoke Prognostic Test of Stenographic Ability**, by E. Hoke. For pupils studying stenography. New York: Gregg Publishing Company, 1922.
- Hoke Measuring Scale for Gregg Shorthand Penmanship**, by E. Hoke. For pupils studying Gregg shorthand. New York: Gregg Publishing Company, 1922.
- Hoke Measuring Scale for Knowledge of Gregg Shorthand**, by E. Hoke. For pupils studying Gregg shorthand. New York: Gregg Publishing Company, 1922.
- Hoke Series of Tests in Gregg Shorthand**, by E. Hoke. For classes in Gregg shorthand. New York: Gregg Publishing Company, 1922.
- Tests in Typewriting**, by E. Hoke. Minneapolis: Educational Test Bureau. Ref: Hoke, E. The improvement of speed and accuracy in typewriting. *Johns Hopkins University Studies in Education*, 1922, No. 7.
- Indiana State High School Tests—First Year Bookkeeping**, by Department of Commerce, Ball State Teachers College, M. E. Studebaker, B. M. Swinford, V. H. Carmichael and F. Botsford. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 76.
- Indiana State High School Tests—Second Year Bookkeeping**, by Department of Commerce, Ball State Teachers College, M. C. Studebaker, B. M. Swinford, V. H. Carmichael and F. Botsford. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 76.
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- Bookkeeping Tests**, by J. H. Jackson, T. H. Sanders, and A. H. Sproul. Boston: Ginn and Company, 1926; revised 1932.
- Objective Tests in Business Science**, by L. L. Jones. Based on "General Business Science" and the accompanying "Projects in Business Science." New York: Gregg Publishing Company, 1930, 1931.
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- A Test in Elementary Accounting**, by R. I. Lund. Range: high school and business college. Battle Creek: Ellis Publishing Company.
- Commercial Law Tests**, by L. Minich. Oklahoma City: Harlow Publishing Company, 1930, 1931.
- Royal Society of Arts Typewriting Tests**, by A. E. Morton. Elementary, Intermediate and Advanced. London: Pitman, 1918.
- Junior Business Training Achievement Test**, by F. G. Nichols. Based on "Junior Business Training." New York: American Book Company, 1931.
- Commercial Law Tests**, by P. B. S. Peters, L. E. Greiner and F. H. Green. Cincinnati: South-Western Publishing Company, 1930.
- Rollinson Diagnostic Shorthand Tests**, by E. A. Rollinson. For students studying Gregg shorthand. New York: Gregg Publishing Company, 1924.
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- Typewriting Diagnosis**, by C. D. Slinker. New York: Gregg Publishing Company, 1928.
- General Business Training Test**, by J. R. Smith. Range: grade 9. Cincinnati: South-Western Publishing Company, 1929.
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- Iowa Placement Examination—Spanish Training**, by G. E. Vander Beke and G. D. Stoddard. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 76.
- Iowa Placement Examinations, New Series—Spanish Training**, by G. D. Stoddard, M. F. Carpenter. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 76.
- Kansas State Teachers College Scholarship Contest First and Second Year Spanish Test**. Emporia: Bureau of Educational Measurements and Standards, Kansas State Teachers College, 1927.
- Objective Test in Spanish Vocabulary**, by J. F. Lemon. Ref: Lemon, J. F. An objective test in Spanish. *Modern Language Journal*, 1927, 12, 201-203.

- Spanish I Examination**, by C. Morgan. Range: high school. Ref: Ruch, G. M., and Rice, G. A. Specimen objective examinations. Chicago: Scott, Foresman and Company, 1931.
- Spanish Silent Reading Test**, by S. L. Pitcher. Ref: Ruch, G. M., and Rice, G. A. Specimen objective examinations. Chicago: Scott, Foresman and Company, 1931.
- Understanding of Spanish**, by O. G. Russell and others. Ref: Lundeberg, O. K. Recent developments in audition speech tests. *Modern Language Journal*, 1929, 14, 193-202.
- Stanford Spanish Tests**, by A. M. Espinosa and T. L. Kelley. Range: high school or college. Stanford University, California: Stanford University Press, 1927.
- First Year Spanish Tests**, by G. Tibbals. Oklahoma City: Harlow Publishing Company, 1920, 1931.
- The Wilkins Achievement Tests in Spanish**, by L. A. Wilkins. Range: first year Spanish. New York: Henry Holt and Company, 1926.
- Spanish Test**, by L. A. Wilkins. Ref: supplement to "El Eco." New York: Doubleday Doran and Company, 1925.
- Modern Language Spanish Test**, by B. D. Wood. Ref: Wood, B. D. New York experiment with the new type modern language tests. New York: Macmillan Company, 1927, Volume I.

ACHIEVEMENT TESTS

HANDWRITING

- Ayres' Handwriting Scale (Gettysburg Edition)**, by L. P. Ayres. Range: elementary and high schools. New York: Russell Sage Foundation, 1917.
- Ayres' Handwriting Scale: Three-Slant Edition**, by L. P. Ayres. New York: Russell Sage Foundation, 1912. (Out of print.)
- Ayres' Scale for Measuring the Quality of Handwriting of School Children**, by L. P. Ayres. Range: elementary school. New York: Russell Sage Foundation, 1912.
- Ayres' Handwriting Scale for Measuring the Quality of Handwriting of Adults**, by L. P. Ayres. Range: adults. New York: Russell Sage Foundation, 1914.
- Ballard Achievement Test—Script Writing Scale**, by P. B. Ballard. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 75.
- Highland Park Handwriting Scale**, by F. S. Breed and E. F. Down. Ref: Breed, F. S., and Down, E. F. Measuring and standardizing handwriting in a school system. *ElemSchJ*, 1917, 17, 470-484.
- Handwriting Specimens Arranged in an Age Scale**, by C. Burt. Ref: Burt, C. Mental and scholastic tests. London: P. S. King and Son, Ltd., 1921.
- Clark-Wells-Freeman Handwriting and Measuring Tablets**, by F. E. Clark, J. B. Wells, and F. N. Freeman. Range: grades 2-8. Columbus: Dobson-Evans Company, 1921.
- Conard Manuscript Writing Standards**, by E. U. Conard. Pen and pencil forms. Range: grade 1 and up. New York: Bureau of Publications, Teachers College, Columbia University, 1929.
- Conner Muscular Movement Penmanship Gradient**, by B. A. Conner. Range: grades 1-8. New York: Houghton Mifflin Company, 1922.
- Courtis Handwriting Samples of Known Value**, by S. A. Courtis. Detroit: S. A. Courtis, 1919.
- Courtis Standard Research Tests in Handwriting, Form A (Detroit Performance Scale)**, by L. A. Shaw and S. A. Courtis. Range: grades 3-8. Detroit: S. A. Courtis, 1919. (Out of print.)
- Courtis Standard Research Tests in Handwriting: Series W**, by S. A. Courtis. Range: grades 3-8. Detroit: S. A. Courtis, 1917.

- Courtis' Standard Research Test in Handwriting**, by S. A. Courtis. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 75.
- Courtis Standard Supervisory Handwriting Test: Form A**, by S. A. Courtis. Range: grades 3-8. Detroit: S. A. Courtis, 1918.
- Detroit Examination in Handwriting**, by Detroit Public Schools. Range: elementary grades. Detroit: Detroit Public Schools.
- Detroit Public Schools Lettering Tests**. Detroit: Detroit Public Schools.
- Economy Handwriting Scale**. Range: grades 3-8. Chicago: Laurel Book Company.
- Faber Freehand Lettering Scale**, by J. F. Faber. Milwaukee: Bruce Publishing Company, 1929.
- Fordyce's Directions for Measuring the Quality and Speed in Handwriting**, by C. Fordyce. Range: grades 2-8. Lincoln: Extension Division, University of Nebraska, 1918.
- Frasier's Writing Scale**, by G. W. Frasier. Range: grades 2-8. Cheney, Washington: Normal Bookstore, 1921.
- Freeman Chart for Diagnosing Faults in Handwriting**, by F. N. Freeman. Range: all grades. Boston: Houghton Mifflin Company, 1914.
- Pupil's Handwriting Scales**, by F. N. Freeman and F. E. Clerk. Range: grades 2-8. Columbus: The Dobson-Evans Company.
- Handwriting Measuring Scale for Grade 3**, by F. N. Freeman and the Zaner-Bloser Staff. Range: grade 3. Columbus: The Zaner-Bloser Company, 1930.
- Gilchrist Handwriting Scale**, by E. P. Gilchrist. Pensacola, Florida: E. P. Gilchrist, 1920.
- Gray's Standard Score Card for the Measurement of Handwriting**, by C. T. Gray. Range: for elementary schools. Bloomington, Illinois: Public School Publishing Company, 1919.
- Minnesota Handwriting Test**, by M. E. Haggerty. Range: grades 2-8. Minneapolis: Bureau of Cooperative Research, College of Education, University of Minnesota.
- Harris Teachers' College Score Card for Measurement of Handwriting**, by H. C. Miller and F. L. Willey. St. Louis, Missouri: Harris Teachers' College.
- Hertzberg Handwriting Scale for Beginners**, by O. E. Hertzberg. Ref: Hertzberg, O. E. Comparative study of methods used in teaching beginners to write. *TCConEd*, 1926, No. 214. (Out of print.)
- Holmes Penmanship Test**, by H. W. Holmes. Range: grades 2-8. Cambridge: H. W. Holmes, Harvard University.
- A Handwriting Scale for Measuring Chinese Characters**, by S. Honsho, Tokyo: Meguro, 1931.
- Houston's Guide for Rating and Correcting Handwriting**, by H. Houston. Range: grades 4-8. New Haven: H. Houston, 1913; revised 1920.
- The Jersey City Handwriting Scales for Grades 2A to 6B**. Jersey City: Jersey City Board of Education, 1929.
- Johnson-Stone Scale for Measuring the Quality of Handwriting**, by G. L. Johnson and C. R. Stone. Range: elementary grades. Ref: Johnson, G. L., and Stone, C. R. Measuring the quality of handwriting. *ElemSchJ*, 1916, 16, 302-315.
- Kansas City Scale for Measuring Handwriting, Missouri Edition**, by Kansas City Public Schools. Range: grades 2-8. Kansas City: Bureau of Research and Efficiency, Public Schools, 1916.
- Detroit Freehand Lettering Scale**, by F. Kepler. Range: grades 7-12. Detroit: Board of Education, 1927.
- Test of Writing Chinese Characters**, by Y. Kubo. Ref: Kubo, Y. The measurement of children's ability to write down Chinese characters. *Jidokenkyujo*, 1919.

- Leamer Diagnostic Practice Sentences in Handwriting**, by E. W. Leamer. Range: grades 2-8. Bloomington, Illinois: Public School Publishing Company, 1924.
- Locker's Handwriting Scale**, by W. C. Locker. Range: grades 1-7. Richmond, Virginia: W. C. Locker, 1919.
- Metropolitan Achievement Handwriting Scales**, by G. Hildreth. Edited by J. S. Orleans. Manuscript and cursive forms. Range: grades 1-6. Yonkers: World Book Company, 1933. (In press).
- New Jersey State Examination for Eighth-Grade Pupils—Handwriting**, by Department of Public Instruction. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 77.
- Newland Chart for Diagnosis of Illegibilities in Written Arabic Numerals**, by T. E. Newland. Bloomington, Illinois: Public School Publishing Company, 1931.
- New York City Penmanship Scale**, by C. C. Lister and G. C. Myers. Range: grades 4-8. New York: Macmillan Company, 1918.
- Minneapolis Self-Corrective Handwriting Charts**, by E. C. Nystrom. Includes handwriting scales. St. Paul, Minnesota: St. Paul Book and Stationery Company.
- Oklahoma College Placement Test in English**. See ACHIEVEMENT TESTS—ENGLISH FUNDAMENTALS, LANGUAGE USAGE AND GRAMMAR, page 94.
- Palmer's Standards for the Evaluation of Efficiency in Handwriting**, by A. N. Palmer. Range: grades 1-8. Chicago: A. N. Palmer Company, 1920.
- Powers Handwriting Scale**, by J. F. Powers. Range: grades 3-8. Chicago: Laurel Book Company, 1922.
- Pressey Chart for Diagnosis of Illegibilities in Handwriting**, by L. C. Pressey. Range: grades 3 through college. Bloomington, Illinois: Public School Publishing Company, 1927.
- Scale for Hand Lettering Quality**, by G. M. Quackenbush. Ref: Quackenbush, G. M. A scale for measuring the quality of hand lettering. *Industrial Education Magazine*, 1928, 30, 229-231.
- Reavis and Aiken's Score Card for Handwriting**, by W. C. Reavis and N. J. Aiken. Ref: Reavis, W. C., and Aiken, N. J. The use of a score card in measuring handwriting. *ElemSchJ*, 1918, 19, 36-40.
- The Practical Handwriting Scale**, by H. D. Rinsland. Range: one scale for each grade 1-8. Dallas: Practical Drawing Company, 1930.
- Rugg Scale for Measuring Free-Hand Lettering**, by H. O. Rugg. Range: high school and higher technical schools. Ref: Rugg, H. O. A scale for measuring free-hand lettering. *JEdPs*, 1915, 6, 24-42.
- East Orange Samples for Rating Handwriting**, by F. M. Smith. Range: grades 4-8. East Orange, New Jersey: Board of Education, 1925. (Not available.)
- Starch Scale for Measuring Handwriting**, by D. Starch. Range: grades 1-8. Cambridge, Mass.: D. Starch, 1919.
- Starch-Wise Measuring Scale for Handwriting**, by D. Starch and C. T. Wise. Range: grades 1-8. Madison: University Cooperative Company, 1919.
- Thorndike's Scale for Measuring the Handwriting of Children**, by E. L. Thorndike. Range: grades 2-8. New York: Bureau of Publications, Teachers College, Columbia University, 1910; revised 1912.
- Thurstone Lettering Test**, by L. L. Thurstone. Ref: Smith, H. L., and Wright, W. W. Second revision of the bibliography of educational measurements. *Bulletin of the School of Education, Indiana University*, 1927, 4, No. 2.
- American Handwriting Scale**, by P. V. West. Range: grades 2-8. New York: A. N. Palmer Company, 1929.
- West Chart for Diagnosing Elements in Handwriting**, by P. V. West. Bloomington, Illinois: Public School Publishing Company, 1926.

- West-Leamer Handwriting**, by P. V. West and E. W. Leamer. Bloomington, Illinois: The Public School Publishing Company, 1925.
- Winnetka Manuscript Writing Scales**. Range: grades 1-3, one scale for each grade. Winnetka, Illinois: Winnetka Public Schools, 1929.
- Witham Scale for Rating Handwriting**, by E. C. Witham. Ref: Witham, E. C. The most accurate measure of handwriting. EdAdSup, 1920, 6, 150-158.
- Zaner's Handwriting Scale**, by C. P. Zaner. Range: grades 1-12. Columbus: Zaner and Bloser Company, 1917.

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HOME ECONOMICS

- The Bowman and Trilling Information and Reasoning Test in Textiles and Clothing**, by L. F. Bowman and M. B. Trilling. Range: high school. Ref: Bowman, L. F., Trilling, M. B., Miller, E., Knapp, C. B., Bell, V., Williams, F., Rugg, B., with collaboration of H. O. Rugg. Home economics in American schools. Chicago: University of Chicago, Department of Education, Monograph, 1920, Chapter 7.
- Broom-Lovelace Home Mechanics Test**, by E. Broom and L. H. Lovelace. Ref: Broom, E., and Lovelace, L. H. A study of a test in home mechanics. HSTea, 1927, 3, 262-263.
- Davis Achievement Scale in Household Science**, by M. E. Davis. Range: grades 8 and 9. Boston: Ginn and Company, 1928.
- Denver Curriculum Test in Home Economics**, by Denver Public Schools. Range: grade 7B. Denver: Denver Public Schools, 1926.
- Engle-Stenquist Home Economics Tests**, by E. M. Engle and J. L. Stenquist. Range: grades 5-10. Household management, foods and cookery, clothing and textiles. Yonkers: World Book Company, 1931.
- Frear-Coxe Clothing Test**, by F. D. Frear and W. W. Coxe. Range: high school girls after from one to four semesters in elementary dressmaking. Bloomington, Illinois: Public School Publishing Company, 1928.
- Home Economics Test**, by S. E. Gillette and M. L. Hale. Range: grade 7B. Ref: Ruch, G. M., and Rice, G. A. Specimen objective examinations. Chicago: Scott, Foresman and Company, 1931, 288-293.
- Goodspeed-Dodge Preliminary Judgment Test in Home-making**, by H. Goodspeed and B. Dodge. Range: grades 8 through high school. Madison: The Parker Company, 1920.
- Home Economics Information Test**, prepared under the auspices of the Department of Household Arts, School of Practical Arts, Teachers College, Columbia University. Range: girls completing the eighth grade. Clothing, foods, and other problems of the home. New York: Bureau of Publications, Teachers College, Columbia University, 1922.
- Illinois Examination Test on Foods**, by Test Committee of the Illinois Home Economics Association, A. B. Robinson, Chairman. Range: high school students in home economics. Bloomington, Illinois: Public School Publishing Company, 1924.
- Indianapolis Sewing Machine Test**. Used in Indianapolis Public Schools. Not available for general distribution.
- Kansas State Teachers College Scholarship Contest Clothing Test**. Emporia: Bureau of Educational Measurements and Standards, Kansas State Teachers College, 1927.
- Kansas State Teachers College Scholarship Contest Food Test**. Emporia: Bureau of Educational Measurements and Standards, Kansas State Teachers College, 1927.

- King Measuring Scale in Foods**, by F. B. King. This is a preliminary form of the King-Clark Foods Test for Grades 6 through 12.
- King-Clark Foods Test for Grades 6 through 12**, by F. B. King and H. F. Clark. Range: grades 6 through 12. Yonkers: World Book Company, 1926.
- Test in Ninth Grade Foods Course**, by L. Kramer, L. Bohnhoff, and E. Shotola. Range: ninth grade. Ref: Ruch, G. M., and Rice, G. A. Specimen objective examinations. Chicago: Scott, Foresman and Company, 1931, 283-287.
- Leary-Dry Technical Information Test for Girls**, by D. B. Leary and R. R. Dry. Revised edition. Range: girls studying home economics. Chicago: C. H. Stoeltig Company, 1924.
- Detroit Domestic Science Tests**, by G. P. McAdam. Range: high school. Detroit: Detroit Public Schools, 1921.
- Murdoch Analytic Sewing Scale for Separate Stitches**, by K. Murdoch. New York: Bureau of Publications, Teachers College, Columbia University, 1922.
- Murdoch's Sewing Scale**, by K. Murdoch. New York: Bureau of Publications, Teachers College, Columbia University, 1919.
- Newkirk-Stoddard Home Mechanics Test**, by L. V. Newkirk and G. D. Stoddard. Iowa City: The Bureau of Educational Research and Service, State University of Iowa, 1928.
- Unit Scales of Attainment in Foods and Household Management**, by E. B. Reeve and C. M. Brown. Range: Junior High School. Forms A and B. Minneapolis: Educational Bureau. 1932.
- Richmond's Measurement of Information Facts in Food Study**, by J. Richmond. Range: high school. Ref: Richmond, J. Measurement of informational facts in food study. *Journal of Home Economics*, 1925, 17, 657-661.
- Stevenson-Trilling Tests in Comprehension of Patterns**, by L. Stevenson and M. Trilling. Range: home economics students, grades 6-12. Bloomington, Illinois: Public School Publishing Company, 1927.
- Stiebeling-Worcester Chart for Diagnosing Defects in Buttonholes**, by H. K. Stiebeling and D. A. Worcester. Emporia: Bureau of Educational Measurements and Standards, Kansas State Normal School, 1922.
- Streeter-Trilling Test at the Completion of Food Preparation Courses in the Junior High School**, by N. Streeter and M. B. Trilling. Range: junior high school. Bloomington, Illinois: Public School Publishing Company, 1927.
- Uniform Departmental Household Arts Examination**, by Staff Members of Atlanta, Georgia, Schools. Range: grade 7A. Ref: Ruch, G. M., and Rice, G. A. Specimen objective examinations. Chicago: Scott, Foresman and Company, 1931, 293-297.
- The Williams and Knapp Scale for Measuring Skill in Machine Sewing**, by F. Williams and C. B. Knapp. Range: elementary and high school. Ref: Trilling, M. B., Miller, E., Knapp, C. B., Bowman, L., Bell, V., Williams, F., Rugg, B., with the collaboration of H. O. Rugg. Home economics in American schools. Chicago: University of Chicago, Department of Education Monograph, 1920.

ACHIEVEMENT TEST

INDUSTRIAL ARTS

- Objective Measurements in Shop Courses**, by L. D. Anderson. Ref: Anderson, L. D. Objective measurements in shop courses. *IndAMag*, 1926, 15, 263-267.
- Badger Mechanical Drawing Tests**, by A. J. Badger. Bloomington, Illinois: Public School Publishing Company, 1929.
- Examination in Machine Shop Practice**, by H. G. Bellus. Ref: Ruch, G. M., and Rice, G. A. Specimen objective examinations. Chicago: Scott, Foresman and Company, 1931, 307-317.

- Mechanical Drawing Test**, by D. W. Castle. Range: high school, trade and technical schools. Peoria, Illinois: Manual Arts Press, 1928.
- Mechanical Drawing Scale**, by — Christy. Ref: Smith, H. J. Objective measurement in industrial education. *Industrial Education Magazine*, 1930, 31, 334.
- Tests of Mechanical Drawing Skills**, by A. W. Duwelius. Ref: Duwelius, A. W. Measuring mechanical drawing skills. *Industrial Education Magazine*, 1927, 29, 16-17.
- Mechanical Drawing Tests**, by F. A. P. Fischer. Range: grades 9-10. Milwaukee: Bruce Publishing Company, 1930.
- Mechanical Drawing Tests**, by A. Flam. Ref: Ruch, G. M., and Rice, G. A. Specimen objective examinations. Chicago: Scott, Foresman and Company, 1931, 317-324.
- Pre-Vocational Printing Test, No. I**, by R. P. Gallagher. Elizabeth, New Jersey: Gallagher, R. P., Assistant Superintendent of Industrial Arts.
- Tests in Industrial Arts**, by C. Hanson-Tybjerg. Ref: Hanson-Tybjerg, C. Differences in talents and abilities of young people. *JAPs*, 1929, 13, 451-468.
- Hudson-Bursch Manual Arts Test**, by J. F. Bursch and W. H. Hudson. Sacramento: J. F. Bursch, Department of Research and Student Personnel, Sacramento City School Department, 1924-1925. (Out of print.)
- Hunter Shop Tests**, by W. L. Hunter. For students studying manual arts. Peoria, Illinois: Manual Arts Press, 1927.
- Information Test in Woodwork**, by Jackson Public Schools. Jackson, Michigan: West Intermediate Press.
- Leavitt's Preliminary Tests for Manual Arts**, by F. M. Leavitt. Range: grades 1-8. Milwaukee: Bruce Publishing Company. Ref: Leavitt, F.M. Standard measurement for manual arts. *IndAMag*, 1919, 8, 132-138.
- True-False Test in Elementary Mechanical Drawing**, by H. F. Morehead. Ref: Ruch, G. M., and Rice, G. A. Specimen objective examinations. Chicago: Scott, Foresman and Company, 1931, 298-302.
- Nash-Van Duzee Industrial Arts Tests for Mechanical Drawing**, by H. B. Nash and R. R. Van Duzee. Milwaukee: Bruce Publishing Company, 1930.
- Nash-Van Duzee Industrial Arts Test: Woodwork, Scale A**, by H. B. Nash and R. R. Van Duzee. Range: junior and senior high school. Milwaukee: Bruce Publishing Company, 1927.
- Partrick's Industrial Arts Test**, by C. D. Partrick. Range: grades 7-9. Bloomington, Illinois: Public School Publishing Company, 1923. (Out of print.)
- Objective Examination in Cabinet Making**, by C. E. Rust. Ref: Ruch, G. M., and Rice, G. A. Specimen objective examinations. Chicago: Scott, Foresman and Company, 1931, 302-307.
- Spink Grading Chart for Mechanical Drawing**, by P. N. Spink. Range: elementary and high school. Faribault, Minnesota: Safety Electric Heater Company, 1921.
- Tests for Mechanical Drawing Aptitude**, by E. G. Stoy. Ref: Stoy, E. G. Tests for mechanical drawing aptitude. *PerJ*, 1927, 6, 93-101.
- Additional Tests for Mechanical Drawing Aptitude**, by E. G. Stoy. Ref: Stoy, E. G. Additional tests for mechanical drawing aptitude. *PerJ*, 1928, 6, 361-366.
- Three Minute Tests in Mechanical Drawing**, by — Sturtevant. Minneapolis: South High School.
- Wells Knowledge Test in Machine Shop**, by G. K. Wells. Range: high school. Peoria, Illinois: Manual Arts Press, 1928.
- Wells Knowledge Test in Printing**, by G. K. Wells. Range: high school. Peoria, Illinois: Manual Arts Press, 1928.
- Wells Knowledge Test in Woodworking**, by G. K. Wells. Range: high school. Peoria, Illinois: Manual Arts Press, 1929.

- Wells-Laubach Knowledge Test of Mechanical Drawing**, by G. K. Wells and M. L. Laubach. Range: high school. Peoria, Illinois: Manual Arts Press, 1929.
- Achievement Test in Mechanical Drawing**, by H. M. Wright. Range: high school or beginning courses in college. Bloomington, Illinois: Public School Publishing Company, 1931.
- Indiana Industrial Arts Test**, by W. W. Wright. Range: grades 7 and 8. Bloomington: University of Indiana. (In mimeographed form.)

ACHIEVEMENT TESTS

MATHEMATICS—GENERAL, PROGNOSIS AND APTITUDE

- Breslich Mathematical Achievement Tests**, by E. R. Breslich. Range: grade 10. Chicago: University of Chicago Press.
- Cooperative Mathematics Test**. Range: high school. New York: Cooperative Test Service, 1930, 1931, 1932.
- Denver Curriculum Tests in Mathematics**, by Denver Public Schools. Range: grades 7-9. Denver: Denver Public Schools, 1927.
- Mathematics I—Final Examination**, by Department of Instructional Research, Detroit Public Schools. Ref: Ruch, G. M., and Rice, G. A. Specimen objective examinations. New York: Scott, Foresman and Company, 1931, 192-196.
- Detroit Examinations in Mathematics**, by Detroit Public Schools. Range: high schools. Detroit: Detroit Public Schools, 1927.
- Iowa High School Content Examination—Mathematics**, by G. M. Ruch with the cooperation of C. L. Huffaker, F. B. Knight and W. Koerth. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 76.
- Iowa High School Content Examination—Mathematics**, by G. M. Ruch with the cooperation of G. U. Cleeton and G. D. Stoddard. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 76.
- Iowa Placement Examinations, New Series—Mathematics Aptitude**, by G. D. Stoddard and M. F. Carpenter. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 76.
- Iowa Placement Examination—Mathematics Aptitude**, by G. D. Stoddard and E. W. Chittenden. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 76.
- Iowa Placement Examination—Mathematics Training**, by G. D. Stoddard and E. W. Chittenden. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 76.
- Kelley's Mathematical Values Test**, by T. L. Kelley. Range: grades 8-12. New York: Bureau of Publications, Teachers College, Columbia University, 1920.
- Plymouth Educational Tests, No. 111A, Equal Angles**, by J. E. McDade. Range: grades 5-8. Chicago: Plymouth Press.
- Plymouth Educational Tests, No. 112A, Equal Rectangles**, by J. E. McDade. Range: grades 5-8. Chicago: Plymouth Press.
- Plymouth Educational Tests, No. 113A, Perception of the Length of Lines**, by J. T. McDade. Range: grades 5-8. Chicago: Plymouth Press, 1920.
- Rogers' Test for Mathematical Ability**, by A. L. Rogers. Range: grade 9. New York: Bureau of Publications, Teachers College, Columbia University, 1918.
- Test of Mathematical Knowledge**, by H. Winkler. (German). SEE ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 79.

ACHIEVEMENT TESTS

ALGEBRA

- Atlanta Series of Tests—Algebra**. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 75.

- Philadelphia Diagnostic Test in Algebra**, by P. A. Boyer. Range: grade 9. Philadelphia: Division of Educational Research, Philadelphia Public Schools, 1927.
- Breslich Algebra Survey Tests**, by E. R. Breslich. Range: first and second semester. Bloomington, Illinois: Public School Publishing Company, 1931.
- First Year Algebra Tests**, by N. Carman. Oklahoma City: Harlow Publishing Company, 1929, 1930.
- Childs' Algebra Test**, by H. G. Childs. Range: first-year algebra. Bloomington, Illinois: Public School Publishing Company, 1917.
- Coleman's Scale in Algebra**, by W. H. Coleman. Range: first-year algebra. Lincoln: Extension Division, University of Nebraska, 1916.
- Columbia Research Bureau Algebra Test**, by J. B. Orleans, J. S. Orleans, A. S. Otis, and B. D. Wood. Range: Test I, first half year of algebra; Test II, first year algebra. Yonkers: World Book Company, 1927, 1929.
- Cooperative Algebra Test**. (Elementary Algebra through Quadratics). New York: Cooperative Test Service, 1930, 1931, 1932.
- Cooperative Algebra Test**. Intermediate Algebra; Quadratics and beyond. New York City: Cooperative Test Service, 1932.
- Dalman-Wentz Algebra Hurdles**, by M. A. Dalman and E. K. Wentz. Range: grades 8 and 9. Bloomington, Illinois: Public School Publishing Company, 1926. Ref: Dalman, M. A. Hurdles: a series of calibrated objective tests in first year algebra. JEdR, 1920, 1, 47-62.
- Mathematics 2 and 3, Final Examination**, by Department of Instructional Research, Detroit Public Schools. Ref: Ruch, G. M., and Rice, G. A. Specimen objective examinations. Chicago: Scott, Foresman and Company, 1931, p. 220-223.
- Douglass Standard Diagnostic Tests for First-Year Algebra**, by H. R. Douglass. Range: grades 9 and 10. Cincinnati: C. A. Gregory Company, 1921; revised, 1924.
- Douglass Standard Survey Tests for Elementary Algebra**, by H. R. Douglass. Range: separate tests for first two semesters of Algebra. Cincinnati: C. A. Gregory Company, 1928.
- Algebra Monthly Survey Test**, by R. R. Goff. Range: grades 9-12. Boston: The Palmer Company, 1928.
- Diagnostic Tests and Remedial Drills in 1st Course Algebra**, by W. W. Hart. Range: grade 9. Boston: D. C. Heath and Company, 1929.
- Hotz's First-Year Algebra Scales**, by H. G. Hotz. Range: first-year algebra. New York: Bureau of Publications, Teachers College, Columbia University, 1918.
- Indiana State High School Tests—First Year Algebra**, by C. G. F. Franzen, H. Littell, N. Reed and W. W. Wright. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 76.
- Indiana State High School Tests—Advanced Algebra**, by G. E. Happell, J. K. Long and G. T. Miller. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 76.
- Institute of Educational Research Algebra Test**. Form A—Elementary algebra to quadratics; Form B—Quadratics and beyond. New York: Bureau of Publications, Teachers College, Columbia University, 1922.
- Iowa Unit-Achievement Tests in First Year Algebra**, by H. A. Greene and A. H. Piper. Range: first year algebra. Iowa City: Bureau of Educational Research and Service, University of Iowa, 1931.
- Iowa Algebra Aptitude Test**, by H. A. Greene and A. H. Piper. Range: first year algebra. Iowa City, Iowa: Bureau of Educational Research and Service, State University of Iowa, 1931.
- Iowa Every Pupil Academic Contest Examination in First Year Algebra**. Iowa City: State University of Iowa, 1929.

- Iowa Every Pupil Academic Contest Examination in First Year Algebra. Iowa City: State University of Iowa, 1930.
- The Iowa Third Annual Every Pupil Test in 9th Grade Algebra, by H. Lundholm. Range: high school. Iowa City: University of Iowa, 1931.
- Kansas State Teachers College Scholarship Contest Algebra Test. Emporia: Bureau of Educational Measurements and Standards, Kansas State Teachers College, 1927.
- Lee Test of Algebraic Ability, by J. M. Lee. Range: students beginning first year algebra. Bloomington, Illinois: Public School Publishing Company, 1930.
- Los Angeles Test in Algebra, by Los Angeles Public Schools. Range: grade 9A. Los Angeles: Board of Education, 1919.
- Objective Tests in High School Subjects—Algebra, by G. Miller. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 77.
- Monroe Standardized Research Tests in Algebra, by W. S. Monroe. Range: secondary schools. Emporia: Kansas State Normal School, 1915. (Out of print.)
- Illinois Standardized Algebra Tests, by W. S. Monroe and L. W. Williams. Range: first algebra students. Bloomington, Illinois: Public School Publishing Company, 1920.
- Ohio Every Pupil Test—First Year Algebra, by H. E. Benz. April, 1931. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 77.
- Ohio Every Pupil Test—First Year Algebra, by H. E. Benz. December, 1931. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 77.
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- Phillips' Algebra Tests, by F. M. Phillips. Range: first-year college. 1914. Ref: Smith, L. S., and Wright, W. W. Second revision of the bibliography of educational measurements. Bulletin of the School of Education, Indiana University, 1927, 4, No. 2.
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ARITHMETIC

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- Ballard Achievement Tests—Arithmetic Reasoning**, by P. B. Ballard. **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 75.
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- Clark-Somers-Wright Arithmetic Test**, by H. F. Clark, G. T. Somers and W. W. Wright. Range: grades 7 and 8. 1926. (Not available for general distribution.)
- Cleveland Survey Arithmetic Tests**, by S. A. Courtis, L. P. Ayres, G. H. Courtis and C. H. Judd. Range: grades 3-8. Bloomington, Illinois: Public School Publishing Company, 1916.
- Digit Combination**, by Colorado State Normal School. Range: grades 3-8. Gunnison: Colorado State Normal School, 1922.
- Columbian Achievement Tests—Arithmetic**, by L. W. Pressey, Editor. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 75.
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- Courtis Standard Research Tests: Series A, Test No. 7**, by S. A. Courtis. Range: upper elementary grades. Detroit: S. A. Courtis, 1908.
- Courtis Standard Research Tests: Series B**, by S. A. Courtis. Range: grades 3-8. Detroit: S. A. Courtis, 1914.
- Courtis Standard Research Tests: Series X, Control**, by S. A. Courtis. Range: elementary secondary, and college. Detroit: S. A. Courtis. (Out of print.)
- Courtis Standard Supervisory Tests in Arithmetic**, by S. A. Courtis. Range: Test A, grades 4B, 4A, and 5B; Test B, grades 5A-8A. Detroit: S. A. Courtis, 1918.
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- Johnson's Diagnostic Tests and Practice Exercises in the Fundamentals of Arithmetic**, by J. T. Johnson. Range: elementary grades. Chicago: Rand McNally and Company, 1926.
- Chicago Supervisory Tests, Arithmetic Fundamentals and Arithmetic Reasoning**, by E. E. Keener. Range: grades 3-8. 1928.
- Metropolitan Readiness Tests**, by G. H. Hildreth and N. L. Griffiths. See TESTS OF MENTAL CAPACITY—PRESCHOOL AND KINDERGARTEN LEVELS, page 30.
- Kinney Commercial Arithmetic Scales**, by L. B. Kinney. Range: high school. Bloomington, Illinois: Public School Publishing Company, 1926.

- Knight-McClure Arithmetic Neatness Scale**, by F. B. Knight and W. E. McClure. Range: grades 3-8. Chicago: Scott, Foresman Company, 1927.
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- Minneapolis Primary Arithmetic Test**. Range: grades 3-4. Minneapolis: Educational Test Bureau.
- The Modern School Achievement Test—Arithmetic**. See ACHIEVEMENT TESTS COMPOSITE, GENERAL AND UNCLASSIFIED, page 77.
- Monroe's Diagnostic Tests in Arithmetic**, by W. S. Monroe. Range: grades 4-8. Bloomington, Illinois: Public School Publishing Company, 1917.
- Monroe's General Survey Scale in Arithmetic**, by W. S. Monroe. Range: Scale I, grades 3-5; Scale II, grades 6-8. Bloomington, Illinois: Public School Publishing Company, 1920.
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- Myers Problem Power Scale**, by G. C. Myers. Range: grades 3-6. Chicago; Plymouth Press, 1922, 1924, 1925.
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- Birmingham Arithmetic Test**, by I. R. Obenchain. Range: grades 5-8. Birmingham, Alabama: Birmingham Public Schools, 1925.
- Omnibus Achievement Test—Arithmetic**, by C. W. Odell. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 77.
- Ohio Every Pupil Test—Arithmetic**, by C. Holley and H. C. Christofferson. Range: grades 3-5. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 77.
- Ohio Every Pupil Test—Arithmetic**, by C. Holley and H. C. Christofferson. Range: grades 6-8. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 77.
- Ohio Every Pupil Test—Arithmetic Problem**, by W. J. Osburn. Range: grades 3-5. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 77.
- O'Rourke Attainment Tests—Arithmetic Reasoning and Arithmetic Fundamentals**, by L. J. O'Rourke. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 77.

- Wisconsin Inventory Tests in Arithmetic**, by W. J. Osburn. Range: grades 2-8. Bloomington, Illinois: Public School Publishing Company, 1924.
- Wisconsin Supervisory Tests**, by W. J. Osburn. Range: grades 3-8. Eau Claire, Wisconsin: Eau Claire Book and Stationery Company, 1923.
- Otis Reasoning Test in Arithmetic**, by A. S. Otis. Range: grades 4-12. Yonkers: World Book Company, 1918, 1923.
- Standard Graduation Examination for Elementary Schools—Arithmetic**, by A. S. Otis and J. S. Orleans. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 77.
- Peet-Dearborn Progress Tests in Arithmetic**, by H. E. Peet, and W. F. Dearborn. Range: grades 4-8. Boston: Houghton Mifflin Company, 1920.
- Peet-Dearborn Progress Tests in Arithmetic**, by H. E. Peet and W. F. Dearborn. Range: Intermediate Series for grades 4 and 5; Grammar Grade Series for grades 6, 7, and 8. Boston: Houghton Mifflin Company, 1930.
- Pintner Educational Achievement Test—Arithmetic**, by R. Pintner. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 77.
- Plymouth Arithmetic Tests, Test No. 5A, 6A, 7A, 8A, 11A, 12A, 16A, 17A, 21A, 24A, and 25A**, by J. E. McDade. Range: tests 5A and 6A, grades 2-7; tests 7A, 17A, and 24A, grades 4-8; tests 8A, 11A, 12A, 16A, and 21A, grades 3-8; test 25A, grades 6-8. Chicago: Plymouth Press, 1922.
- Scale of Attainment, No. 1.—Arithmetic**, by the Department of Psychology, Indiana University. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 78.
- Pressey Scale of Attainment No. 2—Arithmetic**, by S. L. Pressey. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 78.
- Scale of Attainment, No. 3—Arithmetic**, by Department of Psychology, Indiana University. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 78.
- Second Grade Attainment Scale—Arithmetic**, by L. W. Pressey. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 78.
- Pressey Third Grade Attainment Scales—Arithmetic**, by L. W. Pressey. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 78.
- Price's Diagnostic Test of Processes of Working with Common Fractions**, by E. D. Price. Range: grades 6-8. Enid, Oklahoma: Enid Board of Education.
- Providence Inventory Tests—Arithmetic Fundamentals**. Range: grades 4-8. Providence: Providence Public Schools.
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- Public School Achievement Test—Arithmetic Computation and Arithmetic Reasoning**, by J. S. Orleans and T. L. Torgerson. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 78.
- Four Number Tests**, by P. Ranschburg. Mentioned by Stern, W., and Wiegmann, O. *Methodensammlung zur Intelligenzprüfung von Kindern und Jugendlichen*. Leipzig: J. A. Barth, 1926, p. 231.
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- Rice's Reasoning Tests in Arithmetic**, by J. M. Rice. Ref: Rice, J. M. *Scientific management in education*. London: G. G. Harrap and Company.
- Robertson Fraction Test**, by M. S. Robertson. Range: grades 4-7. Baton Rouge, Louisiana: M. S. Robertson, 1924.

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- Schorling-Clark Survey Tests in Arithmetic**, by R. Schorling and J. R. Clark. Range: grades 6-9. Yonkers: Gazette Press, 1923.
- Schorling-Clark-Potter Arithmetic Test**, by R. Schorling, J. R. Clark, and M. A. Potter. Range: grades 5-12. Yonkers: World Book Company, 1926.
- Showalter's Diagnosis Tests in Arithmetic**, by B. R. Showalter. Ref: Showalter, B. R. Master's Essay, Teachers College, Columbia University, New York, 1928.
- The Spencer Diagnostic Arithmetic Test**, by P. L. Spencer. Range: grades 3-8. Cincinnati: C. A. Gregory Company, 1924.
- Stanford Achievement Test—Arithmetic**, by T. L. Kelley, G. M. Ruch and L. M. Terman. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 78.
- New Stanford Achievement Test—Arithmetic**, by T. L. Kelley, G. M. Ruch and L. M. Terman. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 78.
- Starch's Arithmetical Scale A**, by D. Starch. Range: grades 3-8. Madison: University Cooperative Company, 1915.
- Stevenson Arithmetic Reading (Problem Analysis) Test**, by P. R. Stevenson. Range: Test I, grades 4-6; Test II, grades 7-9. Bloomington, Illinois: Public School Publishing Company, 1923.
- Stone's Arithmetic Test for the Fundamental Operations**, by C. W. Stone. Ref: Stone, C. W. Arithmetical abilities and factors determining them. *TCConEd*, 1908, No. 19, 9-12.
- Stone New Reasoning Test in Arithmetic**, by C. W. Stone. Range: grades 4-9. New York: Bureau of Publications, Teachers College, Columbia University, 1927.
- Stone Standardized Reasoning Test**, by C. W. Stone. Range: grades 5-8. New York: Bureau of Publications, Teachers College, Columbia University, 1920.
- Stormzand Graded Series of Arithmetic Tests**, by M. J. Stormzand. Ref: Glendale (California) Course of Study.
- Theisen-Woody's Parallel Tests**, by W. W. Theisen. Range: addition and subtraction tests, grades 2-8; multiplication and division tests, grades 3-8. Madison, Wisconsin: The Parker Company.
- Mathematics Tests**, by H. Thomas. Ref: Thomas, H. *Die mathematische Begabung und ihre Prüfung*. *IndPste*, 1929, 6, 157-164.
- Business Arithmetic Test**, by C. O. Thompson and F. W. Kroner. See **ACHIEVEMENT TESTS—COMMERCIAL SUBJECTS**, page 85.
- Thompson's Minimum Essentials in Arithmetic**, by T. E. Thompson. Range: grades 1-8. Boston: Ginn and Company, 1912.
- Unit Scales of Attainment—Arithmetic**, by M. E. Branom, L. J. Brueckner, A. M. Jordan, P. Cutright, W. A. Anderson, M. G. Kelty, A. Dvorak and M. J. Van Wagenen. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 78.
- Van Wagenen Revision of the Woody Arithmetic Scales**, by M. J. Van Wagenen. Range: grades 3-8. Bloomington, Illinois: Public School Publishing Company, 1925.
- Victorian Teachers College Test in Arithmetic**. Ref: *Victorian Educational Gazette*, August and September, 1926.
- Washburne's Column Addition Test**, by C. W. Washburne. Range: grades 3-8. Yonkers: World Book Company. (Out of print.)
- Wildeman's Standardized Test in the Fundamental Operations with Common Fractions**, by E. Wildeman. Range: grades 5-8. Chicago: Plymouth Press, 1922.

- Wilson General Survey Tests in Arithmetic**, by G. M. Wilson. Range: grades 5-7. Chicago: University Publishing Company, 1926.
- Wilson Inventory and Diagnostic Tests in Arithmetic**, by G. M. Wilson. Range: grades 3-10. Chicago: University Publishing Company, 1927.
- Winnetka Easy Subtraction Facts Teaching Tests**, Winnetka, Illinois: Winnetka Individual Materials, Inc., Horace Mann School.
- Winnetka Test Book: Books I to XII**. Winnetka, Illinois: Winnetka Individual Materials, Inc., Horace Mann School.
- Winnetka Primary Teaching Tests**. Winnetka, Illinois: Winnetka Individual Materials, Inc., Horace Mann School.
- Winnetka Addition Facts Teaching Tests**. Winnetka, Illinois: Winnetka Individual Materials, Inc., Horace Mann School.
- Winnetka Speed Practice and Tests in Arithmetic**. Winnetka, Illinois: Winnetka Individual Materials, Inc., Horace Mann School.
- Witham's Standard Arithmetic Tests**, by E. C. Witham. Range: grades 5-9. Newark: J. L. Hammett Company, 1922.
- Woody Arithmetic Scales: Series A and B**, by C. Woody. Range: addition and subtraction scales, grades 2-8; multiplication and division scales, grades 3-8. New York: Bureau of Publications, Teachers College, Columbia University, 1916; revised, 1920.
- Inventory Test for Readiness in Arithmetic**, by C. Woody. Ref: Woody, C. *Arithmetical background of young children*. JEdR, 1931, 24, 188-201.
- Woody-McCall Mixed Fundamentals**, by C. Woody and W. A. McCall. Range: grades 2-8. New York: Bureau of Publications, Teachers College, Columbia University, 1920, 1923.
- Indiana Composite Achievement Test—Arithmetic**, by W. W. Wright. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 79.
- Wyoming Uniform State Examinations—Arithmetic**, by County Superintendents' Association Examination Committee. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 79.

ACHIEVEMENT TESTS

GEOMETRY AND TRIGONOMETRY

- American Council Solid Geometry Test**, by H. W. Raudenbush, L. P. Siceloff, and B. D. Wood. Range: high school and college. Yonkers: World Book Company, 1928.
- American Council Trigonometry Test**, by H. W. Raudenbush, L. P. Siceloff, and B. D. Wood. Range: high school and college. Yonkers: World Book Company, 1928.
- Geometry Test**, by J. C. Bell and L. V. Stockard. Ref: Bell, J. C., and Stockard, L. V. A preliminary study of the measurement of abilities in geometry. JEdPs, 1916, 7, 567-580.
- Breslich Geometry Survey Tests**, by E. R. Breslich. Range: first and second semester. Bloomington, Illinois: Public School Publishing Company, 1931.
- Test in Plane Geometry through Quadrilaterals**, by E. I. Brown. Ref: Ruch, G. M., and Rice, G. A. Specimen objective examinations. Chicago: Scott, Foresman and Company, 1931, 213-220.
- Columbia Research Bureau Augmented Test in Plane Geometry**, by H. E. Hawkes and B. D. Wood. Yonkers: World Book Company, 1926.
- Columbia Research Bureau Plane Geometry Test**, by H. E. Hawkes and B. D. Wood. Range: high school and college freshmen. Yonkers: World Book Company, 1924, 1926.

- Cooperative Plane Geometry Test.** New York City: Cooperative Test Service, 1930, 1932.
- Cooperative Solid Geometry Test.** New York City: Cooperative Test Service, 1932.
- Cooperative Trigonometry Test.** New York City: Cooperative Test Service, 1932.
- Mathematics 5 Examination,** by the Department of Instructional Research, Detroit Public Schools. Ref: Ruch, G. M., and Rice, G. A. Specimen objective examinations. Chicago: Scott, Foresman and Company, 1931, 202-212.
- Plane Geometry Tests,** by B. W. Greene. Atlanta: Smith, Hammond and Company, 1931.
- Hart's Plane Geometry Tests,** by W. W. Hart. Range: grade 10. Boston: D. C. Heath and Company, 1927.
- Indiana State High School Tests—Plane Geometry,** by E. L. Tierney and W. W. Wright. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 76.
- Indiana State High School Tests—Solid Geometry,** by G. E. Happell, J. K. Long and G. T. Miller. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 76.
- Iowa Every Pupil Academic Contest Examination in Plane Geometry.** Iowa City: State University of Iowa, 1929.
- Iowa Every Pupil Academic Contest Examination in Plane Geometry.** Iowa City: State University of Iowa, 1930.
- The Iowa Third Annual Every Pupil Test in Plane Geometry,** by R. Lane and M. Goen. Range: high school. Iowa City: Bureau of Educational Research and Service, University of Iowa, 1931.
- Kansas State Teachers College Scholarship Contest Plane Geometry Test.** Emporia: Bureau of Educational Measurements and Standards, Kansas State Teachers College, 1928.
- Lane-Greene Unit Achievement Tests in Plane Geometry,** by R. D. Lane and H. A. Greene. Range: high school. Minneapolis: Educational Test Bureau, 1929.
- Lee Test of Geometric Aptitude,** by D. M. and J. M. Lee. Range: beginning Geometry. Los Angeles: Southern California School Book Depository, 1931.
- Achievement Test in Solid Geometry,** by L. A. McCoy. Ref: McCoy, L. A. An achievement test in solid geometry. *MathTea*, 1928, 21, 151-162.
- McMindes Test in Plane Geometry,** by M. E. McMindes. Range: grade 10. Bloomington, Illinois: Public School Publishing Company, 1927.
- Plane Geometry Tests,** by D. W. Meagher. Oklahoma City: Harlow Publishing Company, 1930, 1931.
- Minnick's Plane Geometry Tests,** by J. H. Minnick. Range: secondary schools. Bloomington, Illinois: Public School Publishing Company, 1919.
- Ohio Every Pupil Test—Plane Geometry,** by H. C. Christofferson. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 77.
- Ohio Every Pupil Test—Plane Geometry,** by E. R. Wood. December, 1931. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 77.
- Orleans Geometry Prognosis Test,** by J. B. Orleans and J. S. Orleans. Range: high school and college. Yonkers: World Book Company, 1929.
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- Sangren-Woody Reading Tests**, by P. V. Sangren and C. Woody. Range: grades 4-8. Yonkers: World Book Company, 1926.
- Shank Tests of Reading Comprehension**, by S. Shank. Range: Test I, grades 3-6; Test II, grades 7-9; Test III, grades 10-12. Cincinnati: C. A. Gregory Company, 1929.
- Oklahoma College Reading Test**, by J. W. Shepherd. Norman: Department of Educational Cooperation, University of Oklahoma. Ref: Shepherd, J. W. College freshman placement tests. Phi Delta Kappan, 1929, 11, 131-133.
- Smith Silent Reading Paragraphs for High Schools**, by B. M. Smith. Oak Park, Illinois: B. M. Smith, High School.
- Stanford Achievement Test—Reading**, by T. L. Kelley, G. M. Ruch and L. M. Terman. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 78.
- New Stanford Achievement Test—Reading**, by T. L. Kelley, G. M. Ruch and L. M. Terman. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 78.
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- Reading Tests for Chinese Children**, by Y. Tang. Ref: Tang, Y. Measurements of reading ability of the Chinese children. Chinese Educational Review, 1923, 15.
- Thorndike's Reading Scale, Alpha 2: Silent Reading**, by E. L. Thorndike. Range: grades 3-12. New York: Bureau of Publications, Teachers College, Columbia University, 1920. (Out of print.)
- Thorndike-McCall Reading Scale**, by E. L. Thorndike and W. A. McCall. Range: grades 2-12. New York: Bureau of Publications, Teachers College, Columbia University, 1920.
- Unit Scales of Attainment—Reading**, by M. E. Branom, L. J. Brueckner, A. M. Jordan, P. Cutright, W. A. Anderson, M. G. Kely, A. Dvorak and M. J. Van Wagenen. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 78.
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- Van Wagenen Reading Scales in Biology**, by M. J. Van Wagenen. Range: for college use. Minneapolis: Educational Test Bureau, 1929.
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- Watkins' Silent Reading Tests for Beginners**, by E. Watkins. Range: grade 1. Philadelphia: J. B. Lippincott Company, 1925.
- Whipple's High School and College Reading Test**, by G. M. Whipple. Range: high school and college. Bloomington, Illinois: Public School Publishing Company, 1926.
- Williams Primary Reading Test**, by A. J. Williams. Range: grades 1-3. Bloomington, Illinois: Public School Publishing Company, 1926.
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- Winnetka Primary Reading Power Tests**. Winnetka, Illinois: Winnetka Individual Material, Inc., Horace Mann School, 1926, 1929.
- Witham's Silent Reading Tests**, by E. C. Witham. Range: grades 5-12. Newark: J. L. Hammett Company, 1921.
- Woody Silent Reading Test**, by C. Woody. Range: grades 4-12. New York: Bureau of Publications, Teachers College, Columbia University, 1922.
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- Wyoming Uniform State Examination—Reading**, by County Superintendents' Association Examination Committee. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 79.
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RELIGIOUS EDUCATION

- Multiple-Choice of Religious Ideas**, by W. S. Athearn. Range: grades 5-12. Indianapolis: W. S. Athearn, Butler University.
- Bible Knowledge Tests**, by G. H. Betts. Mentioned by Watson, G. B. What tests can we use in church schools? Religious Education, 1928, 23, 213-219.
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- A Test of Liberal Thought**, by A. T. Case. Range: college students and adults. New York: Bureau of Publications, Teachers College, Columbia University, 1928.
- Chassell Multiple-Choice Test of Religious Ideas**, by C. F. and L. M. Chassell. New York: George H. Doran Company, 1924.
- Chassell Test of Religious Ideas Involving the Ranking of Selected Answers**, by C. F. and L. M. Chassell. Range: grades 4-12. New York: Committee on Social and Religious Survey, 1922.
- Drew Tests in Religious Education**, by C. F. Chassell. Range: grades 3-8. Ref: Chassell, C. F. Some new tests in religious education. *Religious Education*, 1921, 16, 318-336.
- Crissman Bible Tests**, by G. R. Crissman. Range: high school and college. Alva, Oklahoma: G. R. Crissman, 1925.
- Measurement of the Comprehension Difficulty of the Precepts and Parables of Jesus**, by S. P. Franklin. University of Iowa Studies in Character, 1928, 2, No. 1.
- Giles Sunday School Examination**, by J. T. Giles. Range: ten years of age and above. Madison: State Department of Education, 1920.
- Hanson Church School Examination Alpha**, by W. L. Hanson. Range: persons over 12 years of age. Boston: W. L. Hanson, 1924.
- Hartshorne's Scale for Measuring Growth in Religion**, by H. Hartshorne. Range: grades 2-8. New York: Union Theological Seminary.
- Laycock Test in Biblical Information**, by S. R. Laycock. Range: grades 7-12. Edmonton: S. R. Laycock, University of Alberta, 1922.
- Northwestern University Religious Education Tests**. Evanston: School of Education, Northwestern University.
- Advanced Bible Knowledge Test**, by E. Porter and others. Range: adult classes, college students and volunteer leaders. New York: Association Press, 1929.
- Brief Test of Religious Education**, by Test and Research Division, Association Press. New York: Association Press. (In mimeographed form.)
- Union Tests of Religious Ideas**. New York: Association Press. (Out of print.)
- Test of Religious Thinking**, by G. B. Watson. Range: grades 3-8 and high school and above. Revision of Union Tests. New York: Association Press, 1929.
- Whitley Biblical Knowledge Tests**, by M. T. Whitley. One form for the Old Testament, two forms for the New Testament. New York: M. T. Whitley, Teachers College, Columbia University, 1920.

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GENERAL SCIENCE

- Caldwell's Science Tests (Botany, Chemistry, Zoology, and Physics)**, by O. W. Caldwell. Range: grades 7, 8 and 12. Ref: Caldwell, O. W. The Gary public schools, science teaching. New York: General Board of Education, 1919.
- Cooperative General Science Test**. Range: high school and college entrance and placement. New York: Cooperative Test Service, 1930, 1931, 1932.
- Denver Curriculum Tests in General Science**, by Denver Public Schools. Range: grades 7 and 8. Denver: Denver Public Schools, 1926.
- Downing's Range of Information Test**, by E. R. Downing. Range: grade 7 to college sophomore. Chicago: University of Chicago Bookstore, 1919; revised, 1920. Ref: Downing, E. R. A range of information test in science. *SchScMath*, 1919, 19, 228-233.
- Analytical Scales in Elementary Science**, by A. Dvorak and M. J. Van Wagenen. Range: Division 2, grades 5 and 6, division 3, grades 7 and 8, division 4, grade 9. Forms A, B and C. Minneapolis: Educational Test Bureau, 1932.

- Dvorak General Science Scales**, by A. F. Dvorak. Range: junior and senior high school. Bloomington, Illinois: Public School Publishing Company, 1924.
- Pittsburgh General Science Test**, by — Eckert. Pittsburgh: Department of Curriculum Study, Pittsburgh Public Schools.
- Science Examinations for Bowden's "Foundations of Science,"** by J. P. Fitzwater. Philadelphia: P. Blakiston's Son and Company, 1931.
- Wisconsin General Science Examination**, by J. T. Giles, S. M. Thomas and H. W. Schmidt. Range: junior high school. Eau Claire, Wisconsin: Eau Claire Book and Stationery Company, 1926.
- General Science Tests**, by E. E. Halley. Oklahoma City: Harlow Publishing Company, 1931.
- Iowa Every Pupil Academic Contest Examination in General Science**. Range: grade 9. Iowa City: State University of Iowa, 1929.
- Iowa Every Pupil Academic Contest Examination in General Science**. Iowa City: State University of Iowa, 1930.
- The Iowa Third Annual Every Pupil Test in General Science**, by C. B. Yager. Iowa City: State University of Iowa, 1931.
- Iowa High School Content Examination—Science**, by G. M. Ruch with the cooperation of G. U. Cleeton and G. D. Stoddard. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 76.
- Iowa High School Content Examination—Science**, by G. M. Ruch with the cooperation of C. L. Huffaker, F. B. Knight and W. Koerth. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 76.
- Kansas State Teachers College Scholarship Contest General Science Test**. Emporia: Bureau of Educational Measurements and Standards, Kansas State Teachers College, 1927.
- A Test to Accompany "A General Science Workbook,"** by C. H. Lake, L. E. Welton and J. C. Adell. New York: Silver, Burdett and Company, 1931.
- Maxwell First Year Science Tests**, by P. A. Maxwell. Range: high school. Avalon, Pa.: P. A. Maxwell.
- The Modern School Achievement Tests—Elementary Science**. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 77.
- Odell Scales for Rating Pupils' Answers to Nine Types of Thought Questions in General Science**, by C. W. Odell. Range: junior and senior high school. Urbana: Bureau of Educational Research, University of Illinois, 1927.
- Omnibus Achievement Test—Elementary Science**, by C. W. Odell. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 77.
- Ohio Every Pupil Test—General Science**, by G. M. Koon and W. L. Arnholt. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 77.
- Tests on Everyday Problems in Science**, by C. J. Pieper and W. L. Beauchamp. Chicago: Scott, Foresman and Company, 1927.
- Powers General Science Test**, by S. R. Powers. Range: grades 7–9. New York: Bureau of Publications, Teachers College, Columbia University, 1926.
- Mid-term Examination in General Science**, by E. Rentrop. Range: grade 8. Ref: Ruch, G. M., and Rice, G. A. Specimen objective examinations. Chicago: Scott, Foresman and Company, 1931, 181–191.
- Ruch's Range of Information Test in General Science**, by G. M. Ruch. Range: general science classes. Yonkers: World Book Company, 1919.
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- Johnstown Tests in Science**, by H. J. Stack. Ref: Stack, H. J. Johnstown tests in science. *SchScMath*, 1927, 27, 854–862.

- Stanford Achievement Test—Nature Study and Science**, by T. L. Kelley, G. M. Ruch and L. M. Terman. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 78.
- Toops General Science Test**, by H. A. Toops. Range: college freshmen. 1919. Ref: Toops, H. A. A general science test. *SchScMath*, 1925, 25, 817-822.
- Unit Scales of Attainment—Elementary Science**, by M. E. Branom, L. J. Brueckner, A. M. Jordan, P. Cutright, W. A. Anderson, M. G. Kelty, A. Dvorak, and M. J. Van Wagenen. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 78.
- Science Tests**, by R. K. Watkins and R. C. Bedell. Ref: Watkins, R. K., and Bedell, R. C. Learning and test activities in general science. New York: Macmillan Company, 1931.
- Objective Tests in General Science**, by E. W. Watson and I. W. Manley. Range: grade 9. To accompany Book III of the Wood and Carpenter "Our Environment Series" and entitled "Our Environment, How We Use and Control It." New York: Allyn and Bacon, 1929.
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- Test of Natural Science**, by H. Winkler. (German.) See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 79.

ACHIEVEMENT TESTS

BIOLOGY, PHYSIOLOGY, BOTANY

- Tests to Accompany a Biology Workbook**, by J. C. Adell, O. O. Dunham and L. E. Welton. Boston: Ginn and Company, 1929.
- Atlanta Series of Tests—Biology**. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 75.
- Caldwell's Science Test—Botany**, by O. W. Caldwell. See **ACHIEVEMENT TESTS—GENERAL SCIENCE**, page 130.
- Columbia University Examination in Hygiene**. Range: beginning college hygiene classes. New York: Columbia University. On file at the Educational Records Bureau, New York.
- Cooperative Biology Test**. Range: high school and college entrance and placement. New York: Cooperative Test Service, 1930, 1931.
- Cooperative Elementary Biology and Nature Study Test**. New York: Cooperative Test Service, 1930, 1931.
- Cooperative Botany Tests**. Range: college classes. New York City: Cooperative Test Service, 1932.
- Cooprider's Information Exercises in Biology**, by J. L. Cooprider. Range: high school. Bloomington, Illinois: Public School Publishing Company, 1924.
- Detroit Examinations in Biology**, by Detroit Public Schools. Range: high school. Detroit: Detroit Public Schools, 1927.
- Diagnostic Physiology Test**. Ref: Greene, H. A., and Torgensen, A. M. Use and interpretation of educational measurements. New York: Longmans, Greene and Company, 1929, p. 351.
- Grier Range of Information Test in Biology**, by N. M. Grier. Range: grades 8 through high school. 1918. Ref: Grier, N. M. The range of information in biology III, botany. *JEdPs*, 1919, 10, 509-516.
- Indiana State High School Tests—Biology**, preparation directed by the Committee. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 76.

- Jordan-Foran Catholic High School Biology Tests**, by E. B. Jordan and T. G. Foran. Range: high school. Washington, D. C.: The Catholic Education Press, 1926.
- Kansas State Teachers College Scholarship Contest Biology Test**. Emporia: Bureau of Educational Measurements and Standards, Kansas State Teachers College, 1928.
- Kansas State Teachers College Scholarship Contest Physiology Test**. Emporia: Bureau of Educational Measurements and Standards, Kansas State Teachers College.
- Virginia Biology Test**, by F. S. King. University, Virginia: Bureau of Tests and Measurements, Department of Education, University of Virginia, 1928.
- Michigan Botany Test**, by O. W. Laidlaw and C. Woody. Range: first year botany. Bloomington, Illinois: Public School Publishing Company, 1925.
- Objective Tests in High Schools Subjects—Biology**, by G. Miller. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 77.
- New Jersey State Examination for Eighth-Grade Pupils—Hygiene**, by Department of Public Instruction. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 77.
- Oakes and Powers Test of General Biology**, by M. E. Oakes and S. R. Powers. Range: grades 9–12. New York: Bureau of Publications, Teachers College, Columbia University, 1929.
- Olmsted's Diagnostic Physiology Test**, by M. C. Olmsted. Range: grades 7 and 8. Clarkston, Washington: Public Schools, 1921.
- Presson Biology Test**, by J. M. Presson and L. A. King. Range: high school and college. Yonkers: World Book Company, 1929.
- Public School Achievement Test—Nature Study**, by J. S. Orleans and T. L. Torger-son. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 78.
- Richards Biology Test**, by O. W. Richards. Range: high school or college. Chicago: C. H. Stoelting Company, 1927.
- Ruch-Cossman Biology Test**, by G. M. Ruch and L. H. Cossman. Range: high school and college biology classes. Yonkers: World Book Company, 1924.
- New Stanford Achievement Tests—Physiology and Hygiene**, by T. L. Kelley, G. M. Ruch and L. M. Terman. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 78.
- Biology Tests**, by T. R. Stemen and W. S. Myers. Oklahoma City: Harlow Publishing Company, 1930, 1931, 1932.
- A Test of Skill in Using a Microscope**, by R. W. Tyler. Ref: Tyler, R. W. A test of skill in using a microscope. Educational Research Bulletin, 1930, 9, 493–496.
- Van Wagenen Reading Scales in Biology**, by M. J. Van Wagenen. See **ACHIEVEMENT TESTS—READING**, page 129.
- Indiana Composite Achievement Test—Physiology**, by W. W. Wright. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 76.
- Wyoming Uniform State Examination—Physiology—Hygiene**, by County Superintendents' Association Examination Committee. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 79.

ACHIEVEMENT TESTS

CHEMISTRY

- Bell's Test in First Year Chemistry**, by J. Carleton Bell. Range: first year chemistry classes. Ref: Bell, J. C. A test in first year chemistry. JEdPs, 1918, 9, 199–209.

- Bowser's General Chemistry Tests**, by J. W. Bowser. Waynesburg, Pa.: J. W. Bowser.
- Caldwell's Science Test—Chemistry**, by O. W. Caldwell. See **ACHIEVEMENT TESTS—GENERAL SCIENCE**, page 130.
- Standardized Tests based on Emery-Downey-Davis-Boynton's "Chemistry in Everyday Life."** Chicago: Lyons and Carnahan, 1928.
- Columbia Research Bureau Chemistry Test**, by E. R. Jette, S. R. Powers, and B. D. Wood. Range: high school and college. Yonkers: World Book Company, 1927.
- Cooperative Chemistry Test**. New York: Cooperative Test Service, 1930, 1931, 1932.
- Detroit Examination in Chemistry**, by Detroit Public Schools. Range: high school. Detroit: Detroit Public Schools, 1926.
- Tests in Chemistry**, by C. E. Dull. Range: grades 11 and 12. New York: Henry Holt and Company, 1931.
- George Washington University Organic Chemistry Test**, by J. H. Roe, T. Hunt, D. Stubbs, and H. F. Hubbard. Range: college. Washington, D. C.: Center for Psychological Service, 1929.
- George Washington University General Chemistry Test**, by F. A. Moss, W. M. Loman, W. Middleton, and H. F. Hubbard. Range: college. Washington, D. C.: Center for Psychological Service, 1927.
- Gerry Test of High School Chemistry**, by H. L. Gerry. Range: high school chemistry. Boston: Ginn and Company, 1922; revised, 1927.
- Cooperative Chemistry Tests**, by S. Hayes. Range: first year high school chemistry. Ref: Hayes, S. Cooperative chemistry tests. *JEdR*, 1921, 4, 109-120.
- Chemistry Information Test**, by W. F. Hyde and J. P. Guilford. Ref: Hyde, W. F., and Guilford, J. P. Test for classification of students in chemistry. *JApPs*, 1925, 9, 196-202.
- Iowa Placement Examination—Chemistry Aptitude**, by G. D. Stoddard and J. Cornog. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 76.
- Iowa Placement Examination—Chemistry Training**, by G. D. Stoddard and J. Cornog. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 76.
- Iowa Placement Examination, New Series—Chemistry Aptitude**, by G. D. Stoddard, M. F. Carpenter and others. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 76.
- Iowa Placement Examinations, New Series—Chemistry Training**, by G. D. Stoddard and M. F. Carpenter. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 76.
- Union Science Test for Practice and Comparison**, by F. T. Jones. Range: secondary schools. Cleveland: F. T. Jones.
- Kansas State Teachers College Scholarship Contest Chemistry Test**. Emporia: Bureau of Educational Measurements and Standards, Kansas State Teachers College, 1927, 1928.
- Objective Tests in Chemistry**, by J. D. Kegler. Ref: Ruch, G. M., and Rice, G. A. Specimen objective examinations. Chicago: Scott, Foresman and Company, 1931, 162-173.
- Malin Diagnostic Test in the Mechanics of High School Chemistry**, by J. E. Malin. Bloomington, Illinois: Public School Publishing Company, 1932.
- Objective Tests in High School Subjects—Chemistry**, by G. Miller. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 77.

- Noll Tests in General Inorganic Chemistry**, by V. H. Noll. For classifying students entering a beginning course in college chemistry or to measure those who have completed the course. Minneapolis: V. H. Noll, University of Minnesota. Ref: Kinder, J. S., and Odell, C. W. Educational tests for use in institutions of higher learning. University of Illinois Bulletin, 1930, 27, 46-47.
- Ohio Every Pupil Test—Chemistry**, by H. W. Baker. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 77.
- Ohio Every Pupil Test—Chemistry (Essential Mathematics)**, by A. S. Kiefer and E. R. Wood. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 77.
- Persing Laboratory Chemistry Test**, by K. M. Persing. Range: high school. Bloomington, Illinois: Public School Publishing Company, 1930.
- New-Type Tests in Chemistry for Secondary Schools**, by T. C. Polson. Range: principally second semester chemistry. Ref: Ruch, G. M., and Rice, G. A. Specimen objective examinations. Chicago: Scott, Foresman and Company, 1931, 142-154.
- Powers General Chemistry Test**, by S. R. Powers. Range: classes in general chemistry. Yonkers: World Book Company, 1922.
- Rauth-Foran Chemistry Test**, by J. W. Rauth and T. G. Foran. Range: students of high school chemistry. Washington, D. C.: The Catholic Education Press, 1924.
- Rich Chemistry Tests, Gamma and Epsilon**, by S. G. Rich. Range: high school and college. Bloomington, Illinois: Public School Publishing Company, 1923.
- Rivett's Comprehension Test in Chemistry**, by B. J. Rivett. Range: all classes in Chemistry I and II. Detroit: Northwestern High School, 1924.
- Rivett's Time Limit Test in Chemistry**, by B. J. Rivett. Range: first year chemistry. Detroit: Northwestern High School, 1920.
- Chemistry Tests**, by M. C. Watson. Oklahoma City: Harlow Publishing Company, 1930, 1931.
- Webb Test of Previous Information in Chemistry**, by H. A. Webb. Range: beginning of first year chemistry. Nashville, Tenn.: H. A. Webb, George Peabody College for Teachers, 1919. Ref: Webb, H. A. A preliminary test in chemistry. JEdPs, 1919, 10, 36-43.

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PHYSICS

- Balderston's Elementary Physics**. Philadelphia: Christopher Sower Company.
- Harvard Elementary Physics Test**, by N. Henry Black and F. M. Burlingame. Range: students studying elementary physics. Boston: Ginn and Company, 1927.
- Caldwell's Science Tests—Physics**, by O. W. Caldwell. See **ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED**, page 130.
- Iowa Physics Test**, by H. L. Camp. Range: first year high school physics. Bloomington, Illinois: Public School Publishing Company, 1920.
- Chapman Test in Electricity and Magnetism, Sound and Light**, by J. C. Chapman. Range: high school physics classes. New Haven: Yale University, 1919.
- Columbia Research Bureau Physics Tests**, by H. W. Farwell and B. D. Wood. Range: following a course in high school physics or college entrance. Yonkers: World Book Company, 1926.
- Cooperative Physics Test**. Range: high school and college. New York: Cooperative Test Service, 1930, 1932.

- Detroit Examination in Physics**, by Detroit Public Schools. Range: high school. Detroit: Detroit Public Schools, 1927.
- Franzen Test in the Applied Physics of Mechanics, Heat and Sound**, by C. G. F. Franzen. Range: high school and university. 1927. Ref: Smith, H. L., and Wright, W. W. Second revision of the bibliography of educational measurements. Bulletin of the School of Education, Indiana University, 1927, 4, No. 2.
- Glenn-Obourn Instructional Test in Physics**, by E. R. Glenn and E. L. Obourn. Range: grades 11-13. Yonkers: World Book Company, 1929.
- The Hughes Physics Scales**, by J. M. Hughes. Range: high school physics. Bloomington, Illinois: Public School Publishing Company, 1926.
- Hurd Final Test in High School Physics**, by A. W. Hurd. New York: Bureau of Publications, Teachers College, Columbia University, 1930.
- High School Physics Tests**, by M. E. Hurst. Oklahoma City: Harlow Publishing Company, 1930, 1931.
- Iowa Achievement Examinations in College Physics**, by C. J. Lapp. Range: students of first year college physics. Iowa City: Bureau of Educational Research and Service, University of Iowa, 1926.
- Iowa Every Pupil Academic Contest Examination in Physics**. Iowa City: State University of Iowa, 1930.
- The Iowa Third Annual Every Pupil Test in Physics**, by P. M. Bail. Iowa City: University of Iowa, 1931.
- Iowa Placement Examination—Physics Aptitude**, by G. D. Stoddard and C. J. Lapp. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 76.
- Iowa Placement Examination—Physics Training**, by G. D. Stoddard and C. J. Lapp. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 76.
- Jones' Union Science Tests: Physics**, by F. T. Jones. Range: secondary schools. Cleveland: F. T. Jones.
- Kansas State Teachers College Scholarship Contest Physics Test**. Emporia: Bureau of Educational Measurements and Standards, Kansas State Teachers College, 1927, 1928.
- Kilzer-Kirby Inventory Test for the Mathematics Needed in High School Physics**, by L. R. Kilzer and T. J. Kirby. Range: high school physics. Bloomington, Illinois: Public School Publishing Company, 1929.
- Tests in High School Physics**, by V. C. Lohr. Ref: Lohr, V. C. A comparison of some tests given in high school physics. SchScMath, 1927, 27, 74-85.
- Objective Tests in High School Subjects—Physics**, by G. Miller. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 77.
- Miller's Tests in Mechanics and Heat**, by P. S. Miller. Range: secondary schools. Meriden, Conn.: P. S. Miller.
- Ohio Every Pupil Test—Physics**, by F. W. Brown, D. E. Evans and D. P. Harry. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 77.
- Ohio Every Pupil Test—Physics (Essential Mathematics)**, by E. R. Wood. See ACHIEVEMENT TESTS—COMPOSITE, GENERAL AND UNCLASSIFIED, page 77.
- Peters-Watkins Objective Tests for High School Physics**, by C. J. Peters and R. K. Watkins. Range: high school. Columbia, Missouri: University High School, 1926.
- Numerical Problems in High School Physics**, by D. P. Randall. Listed by Smith, H. L., and Wright, W. W. Second revision of the bibliography of educational measurements. Bulletin of the School of Education, Indiana University, 1927, 4, No. 2.

- Test in Mechanics**, by D. P. Randall, — Chapman, and — Sutton. See VOCATIONAL TESTS—MECHANICAL APTITUDE, ACHIEVEMENT, AND INTERESTS, page 184.
- Michigan Instructional Tests in Physics**, by P. V. Sangren and W. G. Marburger. Initial and final examinations. Range: grades 11–12. Bloomington, Illinois: Public School Publishing Company, 1929.
- Starch's Physics Test**, by D. Starch. Range: first year physics. Madison: University Cooperative Company, 1916.
- Stewart-Ashbaugh Physics Tests**, by A. W. Stewart and E. J. Ashbaugh. Range: first and second semester. The first semester test covers mechanics and heat, and the second semester test covers electricity, sound and light. Bloomington, Illinois: Public School Publishing Company, 1931.
- Physics Test**, by L. L. Thurstone. See Thurstone's Vocational Guidance Tests, VOCATIONAL TESTS—GENERAL, page 176.
- Tilton's Physics Completion Tests**, by H. W. Tilton. Range: grades 11 to first year of college. Pittsburgh: South High School, 1921 and 1922.

ACHIEVEMENT TESTS

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ACHIEVEMENT TESTS

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ACHIEVEMENT TESTS

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- Van Wagenen Scales for Measuring Individual Achievement in Spelling**, by M. J. Van Wagenen. Range: grades 3-8. Minneapolis: Department of Educational Psychology, University of Minnesota, 1926.
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FINE ARTS TESTS

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- Knauber-Pressey Art Ability Test**, by A. J. Knauber and L. C. Pressey. Columbus, Ohio: L. C. Pressey, Ohio State University.
- Lewerenz Test in Fundamental Abilities of Visual Art**, by A. S. Lewerenz. Range: grades 3-12. Los Angeles: Southern California School Book Depository, 1927.
- Manuel's Drawing Scale**, by H. T. Manuel. Ref: Manuel, H. T. Talent in drawing. Bloomington, Illinois: Public School Publishing Company, 1919.
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- Stanford University Art Aptitude Test**, by J. T. Lemos and others. Stanford University, California: Stanford University Press, 1932. (In Process.)
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* For aesthetic judgment tests in literature see also ACHIEVEMENT TESTS—ENGLISH APPRECIATION, LITERATURE AND GENERAL, pages 85-88.
See also MENTAL FUNCTIONS—SINGLE TESTS, DRAWING, page 52.

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- Opinion Ballot A and B.
- Truth Test.
- Opinion Ballot for Parents and Teachers.
- Scale A—Form 2, Scale B—Form 1.

II. Conduct Tests.

A. Honesty.

- Attitudes SA.
- Self-Scoring Intelligence and Achievement Tests in Arithmetic, Completions, Information, Word Knowledge, Spelling.
- Self-Scoring Speed Tests.
- Coordination Tests.
- Puzzles Test—Series H.
- Athletic Contest—Series H (Manual only).
- Stunt Parties—Series H (Manual only).

B. Service.

- The Maller Tests.
- Kits, Envelopes and Money Vote Tests (Manual only).

C. Inhibition.

- Speed Test.
- Stories, Puzzles and Safe Tests.
- The Ruggles Distraction Test.
- Stunt Parties—Series I (Manual only).

D. Persistence.

- The Maller Tests.
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Worksample No.	35	Group Contact or Retiring Personality
Worksample No.	43	Clerical Aptitude (Word Checking)
Worksample No.	57	Screw-Driver Skill
Worksample No.	68	Mechanical Aptitude plus Engineering Knowledge (Pyramid)
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