

University of Oklahoma Libraries
Western History Collections

John W. Renner Collection

Renner, John W. Papers, 1949–1991. 9 feet.

Professor. Manuscripts and personal papers relating to the life of John W. Renner, Professor of Science Education at the University of Oklahoma. The collection includes articles and notes (1949–1960); and manuscripts, publications and textbooks (1951–1979) by Renner and others on physics and science education.

Box 1 contains articles by Renner, notes and a textbook on "heat" by L.D. Weld.

Box 2 contains physics topics including those written by Renner and Montgomery and Renner and Packard (consultant). It also includes *Teaching Science in the Secondary School* by Renner and Stafford, and miscellaneous chapters.

Box 3 contains a physics textbook written by Renner, Stafford, and Kellogg.

Box 4 contains *Investigations in Physical Science* by Renner, Stafford, and Kellogg.

Box 5 contains *Guiding Learning in the Secondary School* by Renner, Bibens, and Shepherd.

Boxes 5-7 include works by Renner, Stafford and Coulter -- Teacher's Guide: Books (Grades) 1-6 and Books (Grades) 1-6 and Record Books: Grades (Books) 1-6

Box 8 contains Scope and Sequence: Grades 1-6, and class notes in spiral notebooks.

Box 9 contains correspondence articles by Renner and others, Learning Science Program -- Kindergarten Program, Renner's vita, and miscellaneous.

Box 1

Folder:

1. Film Strip Scripts for S.V.E., 1956-1957
2. Outlines in Development, 1960
3. Physics 22 -- Electricity Exam (includes keys, ditto masters, corrected copies, and answer sheets), 1959
4. World Book -- Completed (includes articles on various topics), 1955-1956
5. Atomic Energy, 1950, 1958

6. Correspondence with Creighton University and other universities, and misc., 1958-1959
7. Tides
8. Speedometer, ca. 1955
9. Curriculum Laboratory -- 2nd semester, 1949-1954
10. Demonstration Hints and Cartoons, ca. 1954
11. Design of Experiments: SUI, 1953-1955
12. "John Dewey in the Science Classroom" -- John W. Renner -- Dr. J. E. McAdam, 1953
13. Statistical Treatment of the Data
14. Relationship Between Instructional Provisions and Functional Competence in Mathematics of Iowa High School Seniors by John W. Renner
15. Davis Test of Functional Competence in Mathematics, 1953
16. *Physics* -- Study Guide and Problems, 1955

A Textbook of Heat by L. D. Weld:

17. Weld -- Chapter 1, 1958
18. Weld -- Chapter 2, ca. 1951
19. Weld -- Chapter 3, 1951, 1956-1958
20. Weld -- Chapter 4, 1958
21. Weld -- Chapter 5, ca. mid-1950's
22. Weld -- Chapter 6, ca. mid-1950's
23. Weld -- Chapter 7, ca. mid-1950's
24. Weld -- Chapter 8, ca. 1952
25. Weld -- Chapter 9, ca. 1952

26. Weld -- Chapter 10, ca. mid-1950's
27. Filmstrips -- Correspondence and Scripts -- McGraw-Hill, 1961-1962
28. Four Seasons, 1968-1970
29. Four Seasons #2, 1969-1972

Box 2

Folder:

1. Vectors, 1962
2. Work and Energy, 1962
3. Torque, 1962
4. Time and Its Measurement, 1961-1962
5. Machines and Energy, 1962
6. Force and Motion, 1962
7. "Electrostatics" by Renner and Montgomery, ca. 1960's(?)
8. "Magnetism" by Renner and Montgomery, ca. 1960's(?)
9. "Is Sound a Wave?" by Renner and Packard, ca. 1960's(?)
10. "What is a Wave" by Renner and Packard, ca. 1960's(?)
11. "The Design of Optical Instruments" by Renner and Packard, ca. 1960's(?)
12. "Momentum and Impulse" by Renner and Packard (Consultant), ca. 1960's(?)
13. "Friction and Its Effects" by Renner and Packard (consultant), ca. 1960's(?)
14. "The Mechanics of Fluids" by Renner and Packard (consultant), ca. 1960's(?)
15. "Measuring Heat and Temperature" by Renner and Packard (consultant), ca. 1960's(?)
16. "The Laws of Heat and Energy" by Renner and Packard (consultant), ca. 1960's(?)
17. "The Effects of Temperature Change" by Renner and Packard (consultant), ca. 1960's(?)

18. "Orbiting the Earth" by Renner and Packard (consultant), ca. 1960's(?)
19. "Taking and Interpreting Measurements" by Renner
20. Chapter I -- Quantitative Techniques for Handling Data

Teaching Science in the Secondary School
(TSITSS) by Renner and Stafford:

21. (TSITSS) -- Contracts, outlines, and permissions, 1969-1971
22. Chapter 1 (TSITSS) -- The Dimensions of Science, 1967-1971
23. Chapter 2 (TSITSS) -- Science and Educational Purpose, 1970
24. Chapter 3 (TSITSS) -- The Adolescent, ca. 1970
25. Chapter 4 (TSITSS) -- The Elements of Inquiry, 1970
26. Chapter 5 (TSITSS) -- Teacher and Learner Functions in the Science Classroom, ca. 1970
27. Chapter 6 (TSITSS) -- The Science Curriculum, 1970
28. Chapter 8 (TSITSS) -- Evaluation in Science Education
29. Chapter 9 (TSITSS) -- The Future, 1971
30. Appendices (TSITSS), 1971
31. Galley Proofs of *Teaching Science in the Secondary School*, ca. 1971

Misc. Chapters

32. Chapter 16: The Development of Atomic Theory, 1962
33. Chapter 17: The Nucleus of the Atom, ca. 1962
34. Chapter 11 (18?)
35. Chapter 19: Nuclear Fission and Fusion, 1963
36. Chapter 20: The Instruments of the Atom, 1963

37. Chapter 21: Radiation in Space, 1963-1965

Box 3

Folder:

1. Physics Lab Experiments (1), 1967-1970
2. Physics Lab Experiments (2), 1967-1970
3. Physics Teacher's Guide (1), 1970-1972
4. Physics Teacher's Guide (2), 1970-1972
5. Renner Physics -- Chapter 1, 1966-1971
6. Renner Physics -- Chapter 2: Gravitation (1), 1966-1970
7. Renner Physics -- Chapter 2: Gravitation (2), 1966-1970
8. Renner Physics -- Chapter 3: Motion and Vectors, 1966-1970
9. Renner Physics -- Chapter 4: Newton's Second Law, 1968-1970
10. Renner Physics -- Chapter 5: Forces and Newton's First Law, 1969-1970
11. Renner Physics -- Chapter 6: Newton's Third Law of Motion and Momentum, 1964-1967
12. Renner Physics -- Chapter 7: Work and Energy, 1971
13. Renner Physics -- Chapter 8: The Nature of Heat and Temperature, 1968
14. Renner Physics -- Chapter 9: Heat and Particle Motion, 1967-1968
15. Renner Physics -- Investigations

Box 4

Folder:

1. Contract Corres -- with Z. Dudenas, Ellis King, and C. Cummings, 1966-1973
2. Contract (Permissions) of Renner, Bibens, and Shepard with Harper and Row, 1960-1979

by Renner, Stafford, and Kellogg
(*Inquiry through Physical Science*):

3. Chapter 1 -- Science: An Introduction, 1975
4. Chapter 2 -- The Graphics of Science, ca. 1975
5. Chapter 3 -- A Changing Model" The Universe, ca. 1975
6. Chapter 3/4 -- Some Ideas on Motion Before Newton, 1974
7. Chapter 4/5 -- Gravitation, 1975
8. Chapter 5/6 -- One Type of Energy, 1975
9. Chapter 7 -- Physical Atom, 1975
10. Chapter 7/8 -- Radiation in the Atom and the Universe, ca. 1975
11. Chapter 8/9 -- Properties and Classification of Matter, ca. 1975
12. Chapter 9/10 -- Some Foundation of Stones in the Structure of Chemistry, ca. 1975
13. Chapter 10/11 -- The Atom and Chemical Phenomena, ca. 1975
14. Chapter 12 -- Weather and Weathering, ca. 1975
15. Chapter 13 -- Rocks and the Changing Earth, ca. 1975
16. Chapter 14 -- Some Properties of Electricity and Magnetism, ca. 1975
17. Some Properties of Electricity and Magnetism, ca. 1973
18. Chapter 15 -- Some Properties of Light and Lenses, ca. 1975
19. Some of the Properties of Light and Lenses (includes carbons), ca. 1975
20. Chapter 16 -- Some Properties of Sound, 1975
21. Chapter 17 -- Science and Society, ca. 1975
22. *Investigations in Physical Science*
--Material and outline (Review)
--includes Marketing Questionnaire, 1974-1975

23. *Investigations in Physical Science* -- Teacher's Guide Material, ca. 1970's
24. Correspondence with Oxford University Press, and *Investigations in Physical Science* -- Outline, Investigations, and a Film Series, 1972-1974

Box 5

Folder:

Guiding Learning in the Secondary School
by John Renner, Robert Bibens, and Gene Shepherd:

1. Chapter 1: The Evolution of Educational Purpose, ca. 1970
2. Chapter 2: The Planning of Educational Purpose, 1970
3. Chapter 3: The Role of the Teacher, 1970
4. Chapter 4: The Impact of the Learner's characteristics on Educational Purpose, 1970
5. Chapter 5: Using Content ..., ca. 1970
6. Chapter 6: Using Curriculum Design, ca. 1970
7. Chapter II: New and Persistent Problems, ca. 1970
8. *Guiding Learning in the Secondary School* -- Galley Proof, 1971
9. *Guiding Learning in the Secondary School* -- Galley Proof, 1971-1972
10. *Guiding Learning in the Secondary School* -- Manuscript, ca. 1971
11. *Guiding Learning in the Secondary School* -- Manuscript, 1971-1972
12. *Guiding Learning in the Secondary School* -- Figures and Misc., 1971-1972
13. Teacher's Guide -- Book 1: Things, ca. 1977
14. Teacher's Guide -- Book 2: Change (1), ca. 1977
15. Teacher's Guide -- Book 2: Change (2), ca. 1977

Book 6

Folder:

Works written by Renner, Stafford, and Coulter

1. Teacher's Guide -- Book 3: Systems (1), ca. 1977
2. Teacher's Guide -- Book 3: Systems (2), ca. 1977
3. Teacher's Guide -- Book 5: Action, ca. 1977
4. Teacher's Guide -- Book 6: Models, ca. 1977

Works written by Renner, Stafford, and Coulter

1. Book 5 (Grade 5) -- Action (3), 1975
2. Book 5 (Grade 5) -- Action (4), ca. 1975
3. Science Exploration, Inventions, and Discoveries -- Book 6 (Grade 6): Models (1), ca. 1976
4. Science Exploration, Inventions, and Discoveries -- Book 6 (Grade 6), ca. 1976
5. The Learning Science Program -- Record Book for Things -- Book 1 (Grade 1), ca. 1977
6. Student Record Book for Change -- Book 2 (Grade 2), ca. 1977
7. Student Record Book for Systems -- Book 3 (Grade 3), ca. 1977
8. Student Record Book for Variation -- Book 4 (Grade 4), ca. 1977
9. Student Record Book for Variation -- Book 4 (Grade 4), ca. 1977
10. Student-Record Book for Variation - Book 4 (Grade 4), ca. 1977
11. Student Record Book for Action -- Book 5 (Grade 5), ca. 1977
12. Student Record Book for Models -- Book 6 (Grade 6), 1977
13. Evaluation Plans for Tests -- Grade (Book) 1 - Grade (Book) 6, ca. 1977
14. A Design for Reading Instruction in the Area of Science: Grades One through Six -- by Renner, Henderson, and Coulter, 1975
15. Teacher's Guide and Misc., 1975-1976

Box 8**Folder:**

1. Elementary Science Series -- Outlines, 1973-1975
2. "Research, Teaching, and Learning with the Piagetian Model", 1974
3. Scope and Sequence -- Grade 1, ca. 1979
4. Scope and Sequence -- Grade 2, ca. 1979
5. Scope and Sequence -- Grade 3, ca. 1979
6. Scope and Sequence -- Grade 4, ca. 1979
7. Scope and Sequence -- Grade 5, ca. 1979
8. Scope and Sequence -- Grade 6, ca. 1979

The box also contains class notes in spiral notebooks, including: Advanced Calculus, Heat and Thermodynamics, Theory of Equations, Differential Equations, Vector Analysis, Physics, Alternating Currents, Curriculum for Comps, Optics, Statistics, Fluid Mechanics, and Mechanics. [1945-1953]

Box 9**Folder:**

1. College General Physical Science Course -- *Investigation in Physical Science*, 1968-1973
2. Permissions for *Teaching Science in the Secondary School*, 1972-1978, 1982-1983
3. "Questions Parents Should Ask Schools" (unpublished) by Renner and Bibens, 1972-1974
4. Chemistry and Biology Research, 1986
5. "Science for the Middle School" by Renner, Atkinson, and Cate, ca. 1988
6. Harper and Row -- Alan McClare -- "The Learning Cycle and Secondary School Science Teaching", 1987
7. Correspondence, Clippings, and Misc., 1976-1984
8. Correspondence and Clippings, 1985-1989

9. "A Course of Study for High School Physics", ca. 1956
10. Correspondence with Listener Corporation (includes Transcripts and Outlines of Tape Series), 1968-1975
11. Rough Draft of M.A. Thesis
12. Correspondence, 1985-1986
13. Correspondence, 1986
14. Correspondence, 1986-1987
15. Correspondence, 1986-1988
16. "Teaching Science as Science" by Renner and Marek, 1990
17. The Learning Science Program -- Kindergarten, ca. 1978
18. The Learning Science Program -- Kindergarten Activities, ca. 1978
19. Furry Kitten Stories -- The Learning Science Program -- Kindergarten
20. Kindergarten Science, 1978
21. Correspondence dealing with the Kindergarten Program, 1975-1977
22. Artwork for Books
23. Vita and Misc., ca. 1988-1991
24. Misc. Correspondence and Misc., 1967-1983
25. Unpublished manuscript by Drs. John W. Renner and Robert F. Bibens, "Questions Parents Should Ask Schools," circa 1970s.