

Newtown High School Library Media Center Type II Texts in 500s and 600s

ASTRONOMY

520 How

Howard, N. E. (1967). *The telescope handbook and star atlas*. New York: Crowell.

520 MOO

Moore, P. (1997). *Cambridge guide to stars and planets. 2nd ed.* New York: Cambridge University Press.

Discusses astronomical terminology and observational techniques; provides detailed information about the sun, moon, planets, and stars; and features whole-sky and seasonal star maps, as well as maps of the eighty-eight constellations.

522 MIN

Minnaert, M. G. J. (1969). *Practical work in elementary astronomy*. New York,: Springer-Verlag.

BIOLOGY

510.2 SIM

Simon, W. (1986). *Mathematical techniques for biology and medicine*. New York: Dover Publications, Inc.

551.4 BUR

Burgess, R. F. (1972). *Exploring a coral reef*. New York: Macmillan.

Describes the various plants and animals that comprise a living coral reef and explains their interrelationship.

574 Kle

Klein, H. A. (1965). *Bioluminescence, 1st ed.* Philadelphia: Lippincott.

574.07 Gab

Gabriel, M.L. (1955). *Great experiments in biology*. Englewood Cliffs, NJ: Prentice-Hall.

574.07 TOC

Tocci, S. (1987). *Biology projects for young scientists*. New York: F. Watts.

A collection of biological science projects which demonstrate concepts and aspects of photosynthesis, genetics, plant and animal development, cell structure, and biochemistry.

574.92 COO

Cooper, E. K. (1960). *Science on the shores and banks*. New York: Harcourt.

Animal, insect, and plant life in or near any body of water--ocean, lake, river, irrigation ditch, with directions for collecting specimens and performing experiments.

575 Gen

Westview Press. (1982) *Genetic technology: a new frontier*. Boulder, CO: London: Westview Press.

582.13 Cut

Cuthbert, M. (1948). *How to know the fall flowers*. Dubuque: W. C. Brown Co.
Pictured-keys for determining the more common fall-flowering herbaceous plants with suggestions and aids for their study.

588 Con

Conard, H.S. (1979) *How to know the mosses and liverworts*. 2nd ed., rev. Boston: WCB/McGraw-Hill.
An illustrated taxonomic guide to mosses and liverworts, or bryophytes, that presents background information on their life cycles and where they grow, and describes their genera and species.

589.1 Hal

Hale, M. E. (1969). *How to know the lichens*. Dubuque: W. C. Brown Co.

595.789 Ehr

Ehrlich, P. R. (1961). *How to know the butterflies*. 1st ed. Dubuque: W. C. Brown Co.
Illustrated keys for determining to species all butterflies found in North America, north of Mexico, with notes on their distribution, habits, and larval food, and suggestions for collecting and studying them.

616.02 PAN

Panno, J. (2005). *Stem cell research: medical applications and ethical controversy*. New York: Facts On File.
Presents an overview of stem cell research, discussing the different types of stem cells, looking at how they are studied in the laboratory, identifying the diseases that may respond to stem cell treatment, and examining legal and ethical issues associated with stem cell research and therapy.

616.07 SHT

Shtasel, P. (1990). *Medical tests and diagnostic procedures: a patient's guide to just what the doctor ordered*. 1st ed. New York: Harper & Row.

628.36 Ste

Stevens, L A. (1974). *Clean water: nature's way to stop pollution*. 1st ed. New York: Dutton.

635.04 BUB

Bubel, N. (1978). *The seed-starter's handbook*. Emmaus, PA.: Rodale Press.

635.0496 OLK

Olkowski, W. (1995). *The gardener's guide to common-sense pest control*. Newtown, CT: Taunton Press.

635.9 BUL

Lane Publishing. (1985). *Bulbs for all seasons. 4th ed.* Menlo Park, CA: Lane Publishing.

635.9 WRI

Wright, M. (1984). *The complete handbook of garden plants.* New York: Facts on File.
A field guide to over 9,000 species and varieties of garden plants. Includes propagating information and a glossary.

636.08 Sil

Silvan, J. C. (1966) *Raising laboratory animals: a handbook for biological and behavioral research.* Garden City, NY: Natural History Press.

CHEMISTRY

540.7 And

Anderson, H. V. (1955). *Chemical calculations. 6th ed.* New York: McGraw-Hill.

540.72 STA

Stark, N. (1974). *The formula manual. 2nd ed.* Cedarburg, WI: Stark Research Corp.

548 Hol

Holden, A. (1960). *Crystals and crystal growing.* Garden City, NY: Anchor Books.

DATA ANALYSIS

515 Hol

Holmes, N. (1984). *Designer's guide to creating charts and diagrams.* New York: Watson-Guptill Publications.

ENGINEERING

620 GOO

Goodwin, P. (1987). *Engineering projects for young scientists.* New York: F. Watts.
Presents practical problems and science fair projects related to engineering and physics, covering such subjects as force, friction, motion, sound waves, light waves, and mechanics.

621.042 GAR

Gardner, R. (1987). *Energy projects for young scientists.* New York: F. Watts.
Instructions for a variety of projects and experiments related to solar, thermal, electrical, kinetic, and potential energy.

624 Sal

Salvadori, M.G. (1979). *Building: the fight against gravity. 1st ed.* New York: Atheneum.
An introduction to the basic principles of architecture and engineering including a discussion of structural materials and their properties and such problems as how skyscrapers are kept from swaying excessively and buildings prevented from sinking into the ground.

643 Adv

Time-Life Books. (1978). *Advanced wiring.* Alexandria, Va.: Time-Life Books.
Provides advice on installing electrical wiring in the home, explaining how to bring in more current, how to install an intercom, a TV antenna, remote control devices and other projects.

GENERAL SCIENCE

507.24 Bel

Beller, J. (1982). *So you want to do a science project!* New York: Arco Pub.
A guide to selecting, researching, and doing science projects--some not too difficult, others more sophisticated--with lists of projects in various scientific areas.

509 ADL

Adler, R. E., (2002). *Science firsts: from the creation of science to the science of creation.* New York: John Wiley.
Thales and natural causation -- Anaximander orders the cosmos -- Pythagoras numbers the cosmos -- Atoms and the void -- Aristotle and the birth of biology -- Aristarchus, the forgotten Copernicus -- Archimedes's physics -- Ibnal-Haitham illuminates vision -- Copernicus moves the earth -- Galileo discovers the skies -- Kepler solves the planetary puzzle -- Van Leeuwenhoek explores the microcosm -- Newton: gravity and light -- A breath of fresh air -- Humphry Davy, intoxicated with discovery -- Visionaries of the computer -- Darwin's great truth -- A genius in the garden -- Mendeleev charts the elements -- In the realm of radioactivity -- Planck's quantum leap -- Wired on wireless -- Rutherford dissects the atom -- Einstein: matter, energy, space, and time -- Wegener sets the continents adrift -- Hubble's expanding universe -- Out of Africa -- Fermi and the fire of the gods -- McClintock's chromosomes -- A bit of genius -- The dynamic duo of DNA -- Echoes of creation -- We are not what we seem -- Planetary pioneers -- After Dolly, life will never be the same. "Tells the engaging and inspiring stories of thirty-five landmark scientific discoveries. From the first accurate prediction of an eclipse in 585 B.C. to the cloning of Dolly the sheep...Adler clearly explains the context and importance of these discoveries."

510 BAR

Barnard, D.P. (1962). *Fifty Observer brain-twisters.* London: Faber and Faber.

510 Tho

Thomas, D. A. (1988). *Math projects for young scientists.* New York: F. Watts.
Suggests topics and tips on preparing a project or original research in pure mathematics for a science fair. Discusses such areas as probability, geometry, topology, number theory, and sequences.

PHYSICS

507 GAR

Gardner, R. (2000). *Science projects about the physics of toys and games*. Berkeley Heights, NJ: Enslow.

Presents science projects and experiments exploring the physics of various toys, including an air car, top, and balloon.

530 ROT

Rothman, M. A. (1972). *Discovering the natural laws: the basis of physics*. [1st ed.]. Garden City, N.Y.: Doubleday.

530.1 Koc

Kock, W. E. (1965). *Sound waves and light waves*. 1st ed.. Garden City, N.Y.: Anchor Books.

530.11 DAV

Davies, P. C. W. (2001). *How to build a time machine*. 1st. American ed. New York: Viking. Physicist Paul Davies,

While asserting that time travel is possible, explores the scientific conundrums that would accompany such an undertaking.