

Appendix B

Science and Society

FIRST GRADE

Topic	Link to Science and Society
Biology	Sonia Ortega is the National Science Foundation program director and a marine biologist.
Geology	Dr. Winifred Goldring, eminent New York State geologist and the first person to do exhaustive work on stromatolites.
Engineering	Dr. Shamim Rahman is NASA's Chief Engineer for the Propulsion Test Directorate at Stennis Space Center.
Engineering	Felix Alberto Soto Toro is a NASA design engineer for hardware and software automated systems who reviews, designs, builds, tests and implements engineering designs used in the Space Shuttle and Payload Operations Development Laboratories
Atoms	Mike Wong's research in nanostructured materials is at the cutting edge of chemistry and is extending the traditional boundaries of both chemical engineering and materials science. He has used nanoparticles to develop innovative new catalysts for the chemical industry.

SECOND GRADE

Topic	Link to Science and Society
Plants	Mary Agnes Chase, studied and illustrated plants
Dinosaurs	Susan Hendrickson, paleontologist who has a Tyrannosaurus Rex named after her.
Animals	Alejandro Purgue, scientist who studies sounds animals make. Discovered that bullfrogs make most of their sound through their ears.

THIRD GRADE

Topic	Link to Science and Society
Weather	Lt. Col William Rankin, Naval Pilot Caught in storm cloud
Plants	Dr. Elissa Levine, Soil Scientist NASA
Animals	Dr. Tod Campbell, Green Anole Expert
Engineering	Joseph B. Strauss, Chief Engineer of Golden Gate Bridge

FOURTH GRADE

Topic	Link to Science and Society
Ecology	Rachel Carson, scientist and writer who learned that a chemical called DDT was destroying many ecosystems
Weather	Joanne Simpson, meteorologist/pilot who tested ideas about weather patterns by flying through weather systems
Plants and Space	Doug Ming, NASA scientist who studied soil and hope to grow plants in extreme conditions like Mars and the Moon
Electricity	William Gilbert, physician who developed and conducted experiments about electricity and magnetism
Astronomy	Nicolaus Copernicus, astronomer who studied the works of Ptolemy and other astronomers – developed a different theory of how to model the universe

FIFTH GRADE

Topic	Link to Science and Society
Engineering	Charles Babbage, originated the idea of a programmable computer
Engineering	Karl Benz, internal combustable engine for automobiles
Earth & Space	Florence Bascom, first female geologist
Earth & Space	Caroline Herschel, astronomer who discovered many comets
Earth & Space	Isacc Newton, "Father of Science," telescope
Earth & Space	Galilei Galileo, "Father of Modern Science," telescope
Earth & Space	Charles Goodyear, process vulcanization
Earth & Space	Alexander Fleming, discovered penicillin

Contributions of scientists listed above are suggested for discussion during related units.