

SCMS Science Curriculum

6TH GRADE

Comprehensive Science 1 – 6th grade science includes standards covering each of the major branches of science. Students will engage in a variety of learning opportunities including cooperative investigations on topics within the nature of science and scientific inquiry, Earth & space science, physical science, and life science. Some specific topics of study include weather and climate, forces and motion, and body systems.

6th Grade Bridge Science – The 6th grade bridge science class is our bridge into the pre-AP program at Swift Creek. This class uses a variety of instructional techniques to introduce students to the nature of science and scientific inquiry, Earth and space science, and life science topics. The purpose of this class is to give students a foundation in Earth science and life science so that regardless of their choice of high school course in 8th grade, they have a background in all of the sciences. While content is taught at a middle school level, the pace is demanding.

7TH GRADE

Comprehensive Science 2 – 7th grade science includes standards covering each of the major branches of science. Students will engage in a variety of learning opportunities including cooperative investigations on topics within the nature of science and scientific inquiry, Earth & space science, physical science, and life science. Some specific topics of study include study of the solid Earth, energy, heredity, evolution, and ecology.

Bridge Physical Science – The 7th grade bridge class explores all of the middle school physical science standards. In addition to 7th and 8th grade nature of science standards, students will investigate atomic theory, the periodic table, chemical bonds and chemical reactions, energy, forces, and motion. While the content is taught at the middle school level, the pace is demanding.

Physical Science Honors (H.S. credit) – Physical Science Honors is a high school-level course. A variety of instructional techniques are used to discover content related to chemistry and physics. Specific topics include the evolution of atomic theory and creation of the periodic table, how the periodic table is used to predict and describe chemical bonds and chemical reactions, types of energy, forces and motion, and work and power. Content is taught at the high school level and the pace is demanding.

8TH GRADE

Comprehensive Science 3 – 8th grade science includes standards covering each of the major branches of science. Students will engage in a variety of learning opportunities including cooperative investigations on topics within the nature of science and scientific inquiry, Earth & space science, physical science, and life science. Some specific topics of study include our Earth & Moon, the solar system, outer space, atomic theory, the periodic table, chemical reactions, and photosynthesis & cellular respiration.

Earth/Space Science Honors (H.S. credit) – Earth & Space Science Honors is a high school-level course. A variety of instructional techniques are used to discover content related to geology and astronomy. Specific topics include astronomy, weather and climate, ocean basins and currents, plate tectonics, and geologic time. Content is taught at the high school level and the pace is demanding.

Biology Honors (H.S. credit) - Biology Honors is a high school-level course. A variety of instructional techniques are used to discover content related to life science. Specific topics include cell theory, body systems, heredity, evolution by natural selection, and ecology. Content is taught at the high school level and the pace is extremely demanding. There is a comprehensive End-of-Course Exam for this class.

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