6th Grade Science Syllabus

Course Details

Course Code: 22010000

Subject: 6th Grade Science

Required Prerequisites: Successful completion of 5th grade Science.

Suggested Prerequisites: None

Recommended Grade Levels: 6th grade

Duration: Varies

Course Availability: A listing of when this course is offered in the current school year can be found on the VirtualSC Current Course Offerings page (opens in a new window).

Class Times: There are no scheduled class meetings for this course; however, to measure learning, students will complete self-checks, practice lessons, multiple choice questions, projects, discussion-based assessments, and live conferences with an instructor. Students are expected to maintain regular contact with teachers. Students are expected to work on their own to meet the deadlines posted in their course pacing guide. Students should expect to spend 7-9 hours a week working on this course independently, in addition to any live meetings.

Textbook: All course materials are included in the course and no outside textbook is required.

Required Course Materials: No additional materials required.

Outside Websites: A list of links to websites and online textbooks used in this course can be found here: VSC Course Links Document Folder (opens in a new window). Students will need to be able to access all of these links to access all course materials.

Final Exam: Students in this course take section A and section B comprehensive assessments.

Course Description

Science in the middle school provides students with the foundation to be successful in high school science courses, by providing a range of content in the life, earth, and physical sciences. In grade six student's use science and engineering practices along with the seven core concepts (patterns; cause and effect; scale, proportion, and quantity; systems and system models; energy and matter; structure and function; and stability and change) to explore Earth's Weather and Climate, Energy Transfer and Conservation, Diversity of Life through Classification of Animals, and Diversity of Life involving Protists, Fungi, and Plants. The content, concepts, and skills transition students to developing and planning controlled investigations.

The curriculum used in this course is guided by the SC College- and Career-Ready Standards for Science Grade 6 (opens in a new window).

Scope and Sequence

Unit 1: Earth's Atmosphere, Weather, and Climate

- Structure and Composition of Earth's Atmosphere
- Composition of Air
- Energy Transfer and Water Cycle
- Extreme Weather
- Meteorology
- Climate and Factors that Affect It

Unit 2: Naming and Classifying Things

- Protists
- Characteristics of Living Things
- Features and Naming
- Levels of Classification
- Fungi
- Plants

Unit 3: Relationships Among Living Things

- Animals
- Types of Animals
- Behaviors
- Organism's Response to the Environment

Unit 4: Energy

- Transfer and Conservation of Energy
- Potential and Kinetic Energy
- Transformation of Energy
- Electricity and Magnetism Relationship
- Heat and Temperature
- Inclined Plane
- Lever
- Pulley

Students will be sent a full list of assignments and their due dates at the beginning of the course.

Current pacing guides for this course can be found on the Current Course Offerings page (opens in a new window) on the VirtualSC website.

Course Grades

The final grade in this course results from the following:

- Unit Work: 60%
- Course Projects: 40%

VirtualSC Details

Information on VirtualSC student guidelines, policies and technology requirements can be found in the VirtualSC Student Support Portal (opens in a new window).