



7th Grade Science Semester 1 Syllabus

Course Code:2221S100 (Semester 1)

Subject: 7th Grade Science

Required Prerequisites: Successful completion of 6th grade Science.

Suggested Prerequisites: None

Recommended Grade Levels: 7th grade

Duration: Yearlong

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: Class Times: This course has scheduled instructional meetings. Information on scheduled meetings for each course is communicated by the teacher. Recordings of these meetings will be available for students unable to attend. Students should expect to spend 7-9 hours a week working on this course independently, in addition to any live meetings, and are expected to meet the deadlines posted in the course pacing guide.

Textbook: There is no textbook required for this course.

Required Course Materials: All course materials are included in the course and no outside textbook is 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 Course Project: Students in this course will complete a comprehensive performance task.

Course Description

Middle School Science in grade 7 is the second in a series of three consecutive middle school science classes. It builds on concepts introduced in the first and second courses of the series, including the disciplines of life science, physical science, and earth-space science. In addition, technology, engineering, and mathematics (STEM) concepts are integrated throughout the course. **Students learn about how atomic structures are essential in chemical reactions, how energy with chemical reactions is necessary for survival, and how matter and energy cycle within ecosystems. Students will also learn about how Earth's resources impact population growth of species over time.**

The curriculum used in this course is guided by the [SC College- and Career-Ready Standards for Science Grade 7](#) (opens in a new window).

Scope and Sequence

- Start Here
- Unit 1: Atomic Composition
- Unit 2: Exploring Substances
- Unit 3: Chemical Reactions
- Unit 4: Energy in Chemical Reactions
- Unit 5: Energy Transfers

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: 90%
- Course Projects: 10%

VirtualSC Details

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