

6th Grade Science

First 9 Weeks

- Design a simple experimental procedure with an identified control and appropriate variables.
- Select tools and procedures needed to conduct a moderately complex experiment.
- Interpret and translate data into a table, graph or diagram.
- Draw a conclusion that establishes a cause and effect relationship supported by evidence.
- Identify a faulty interpretation so data that is due to bias or experimental error.
- Identify the tools and procedures needed to test the design features of a prototype.
- Evaluate a protocol to determine if the engineering design process was successfully applied.
- Distinguish between the intended benefits and the unintended consequences of a new technology.
- Differentiate between adaptive and assistive engineered products.
- Classify organisms as producers, consumers, scavengers, or decomposers according to their role in a food chain or food web.
- Interpret how materials and energy are transferred through an ecosystem.
- Identify the biotic and abiotic elements of the major biomes.
- Identify the environmental conditions and interdependencies among organisms found in the major biomes.

Common Formative Assessment 1 – Week of August 29, 2016

Common Formative Assessment 2 – Week of October 3, 2016

Second 9 Weeks

- Use data to draw conclusions about the major components of the universe.
- Explain how the relative distance of objects from the earth affects how they appear.
- Distinguish among a day, lunar cycle, and year based on the movements of the earth, sun, and moon.
- Explain the different phases of the moon using a model of the earth, moon, and sun.
- Predict the types of tides that occur when the earth and moon occupy various positions.
- Use a diagram that shows the positions of the earth and sun to explain the four seasons.

Common Formative Assessment 3 – Week of November 7, 2016

Common Formative Assessment 4 – Week of December 12, 2016

Third 9 Weeks

- Distinguish among gravitational potential energy, elastic potential energy, and chemical potential energy.
- Interpret the relationship between potential and kinetic energy.
- Recognize that energy can be transformed from one type to another.
- Explain the Law of Conservation of Energy using data from a variety of energy transformations.
- Identify how simple circuits are associated with the transfer of electrical energy when heat, light, sound, and chemical changes are produced.
- Identify materials that can conduct electricity.

Common Formative Assessment 5 – Week of January 30, 2017

Common Formative Assessment 6 – Week of March 6, 2017

Fourth 9 Weeks

- Analyze data to identify events associated with heat convection in the atmosphere.
- Recognize the connection between the sun's energy and the wind.
- Describe how temperature differences in the ocean account for currents.
- Interpret meteorological data to make predictions about the weather.

Common Formative Assessment 7 – Week of April 3, 2017

Science 6th Grade State Standards are found:

http://tn.gov/assets/entities/education/attachments/std_sci_gr_6.pdf

**All common assessments will be scheduled within the week assigned. Each school may adjust the day of the week to meet the individual's school schedule.*

**Common assessments may be rescheduled due to inclement weather.*