7th Grade Science

First 9 Weeks

- Design a simple experiment with controls and variables
- Select tools and procedures needed to conduct an experiment
- Interpret and translate data in a table, graph, and diagram
- Draw a conclusion that shows a causes and effect relationship
- Identify a falsely interpretation of data due to error or bias
- Identify the tools and procedures to test a prototype
- Evaluate a protocol to see if the engineering design process was applied
- Distinguish between the intended benefits and unintended consequences of new technology
- Tell the difference between adaptive and assistive engineered products
- Identify and describe the function of plant and animal cell organelles
- Interpret and explain the relationship between cells, tissues, organs and organs systems
- Sequence diagrams that depict the stage of cell division
- Explain how materials move through diffusion
- Compare the reactants and products of photosynthesis and respiration
- Interpret a diagram that shows the exchange of carbon dioxide and oxygen

Common Formative Assessment 1 – Week of August 29, 2016

Common Formative Assessment 2 – Week of October 3, 2016

Second 9 Weeks

- Classify methods of reproduction as asexual or asexual
- Match flowers parts with their function

- Describe the relationship between genes, chromosomes, and traits
- Interpret a Punnett square to predict traits passed from parents to offspring
- Explain the function of different organ systems

Common Formative Assessment 3 – Week of November 7, 2016

Common Formative Assessment 4 – Week of December 12, 2016

Third 9 Weeks

- Use a table of properties to classify minerals
- Label a diagram that depicts the three types of rocks
- Identify the process that drive the rock cycle
- Differentiate between earth's three layers
- Recognize tectonic plates move at rates of centimeters per year
- Describe the relationship between plate movement and earthquake, volcanoes, mountain building, and seafloor spreading
- Evaluate man use of resource on the environment

Common Formative Assessment 5 – Week of January 30, 2017

Common Formative Assessment 6 – Week of March 6, 2017

Fourth 9 Weeks

- Differentiate between the 6 simple machines
- Determine the amount of force needed to do work using simple machines
- Differentiate between transverse and longitudinal waves
- Compare and contrast the different parts of a wave
- Explain how newton's laws relate to the movement of objects
- Apply proper equations pertaining to speed, distance, and time

Common Formative Assessment 7 – Week of April 3, 2017

Science 7th Grade State Standards are found:
http://tn.gov/assets/entities/education/attachments/std_sci_gr_7.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.*