GRADE FIVE SCIENCE I can

- I can identify the steps to the design process/scientific method.
- I can ask questions that can be answered through scientific investigations.
- I can observe and ask questions related to my surroundings.
- I can predict my outcome based on my observations.
- I can design and plan an experiment based on the design process/scientific method.
- I can identify the appropriate tools and equipment to use within my investigations.
- I can identify appropriate lab safety techniques when investigating.
- I can communicate my observations, data, explanations, and predictions based on my investigation.
- I can describe ecosystems based on the populations in them.
- I can explain that the major source of energy is sunlight for ecosystems.
- I can identify how producers, consumers, and decomposers work together within an ecosystem.
- I can explain that energy entering ecosystems is transferred and transformed by producers through the process of photosynthesis.
- I can trace how energy passes from organism to organism as illustrated in food chains/webs.
- I can classify populations by how their acquire energy.

- I can observe changes in an ecosystem over time.
- I can explain how endangered species affect the food webs within the populations.
- I can investigate that the solar system includes the sun and all the objects that orbit the sun.
- I can identify the unique characteristics of each planet in the solar system.
- I can explain that our sun in one of many stars, and how it is characterized in our universe.
- I can explain what a star is and how they are grouped within the night sky.
- I can explain Earth's rotation on its axis and how this causes day and night.
- I can define Earth's revolution around the sun and how it creates the seasons.
- I can describe that temperature changes account for our seasons and weather patterns.
- I can explain how sounds are produced through the vibration of objects.
- I can explain how sound needs a medium, solid, liquid or gas, in which to travel through.
- I can identify how the rate of vibration is related to the pitch of a sound.
- I can explain how sound can be absorbed, or reflected on other mediums.
- I can explain how light travels in a straight line until it comes into contact with another object.

- I can explain how shadows are produced within everyday situations.
- I can explain how light can be reflected, refracted, or absorbed when it comes into contact with another object.
- I can identify how light travels through objects that are opaque, transparent and translucent.
- I can identify how prism bend white light and separate different colors of light.
- I can explain how reflected colors are the only visible color.
- I can explain how the color of the object can increase or decrease the temperature of the object.
- I can explain how light travels faster than sound.
- I can explain how the motion of the object can change based on speed and direction.
- I can identify how the force changes the motion of an object.
- I can calculate the speed and movement of an object.
- I can explain how the speed of an object affects the distance it travels.
- I can explain how weight is a measure of the gravitational force between the object and Earth.