

5th Grade Science Power Standards

(plus reference to prior teaching)



The Nature of Science and Engineering:

- I can interpret and analyze data gathered during experiments. (3.1.1.1.1; 3.1.1.2.2; 3.1.1.2.4; 5.1.1.1.2; 5.1.1.1.3)
- I can record and organize data gathered during experiments. (3.1.1.2.3; 5.1.1.1.1; 5.1.3.4.1)
- I can create a scientific question, plan a scientific investigation, and conduct a scientific investigation. (3.1.1.2.1; 5.1.1.2.1; 5.1.1.2.2; 5.1.1.2.3)
- I can define observations, variables, results, and procedure. (5.1.1.2.2; 5.1.1.2.3)
- I can read and understand maps and other scientific models. (5.1.1.1.4; 5.1.3.4.2)
- I can use many different scientific tools during experiments and make accurate measurements. (3.1.3.4.1; 5.1.3.4.1)
- I can explain the positive and negative effects on our world as new products are introduced. (4.1.2.1.1)
- I can describe a problem and design a solution to a problem. (4.1.2.2.1; 4.1.2.2.2; 4.1.2.2.3; 4.1.3.3.1)
- I can recognize that people of all different backgrounds have contributed to the world of science. (3.1.3.2.1; 3.1.3.2.2; 5.1.3.2.1)
- **Physical Science:**
 - I can identify the different properties of matter. (4.2.1.1.1)
 - I can describe the different states of matter and how the states of matter can change. (4.2.1.2.1; 4.2.1.2.2)
 - I can identify simple machines and demonstrate how they can change motion. (5.2.2.1.1)
 - I can identify what a force is and how motion is a result of a force. (5.2.2.1.2; 5.2.2.1.3)

- I can identify and describe how sound and light are different types of energy. (3.2.3.1.1; 3.2.3.1.2; 3.2.3.1.3)
- I can explain how energy can produce heat and identify materials that would be conductors and insulators of this heat energy. (4.2.3.1.1; 4.2.3.1.3; 4.2.3.2.1)
- I can explain how magnets work. (4.2.3.1.2)
- I can construct an electrical circuit and explain how an electric current can produce a magnetic force. (4.2.3.2.2; 4.2.3.2.3)
- **Earth and Space Science:**
- I can explain how the surface of the Earth is always changing. (5.3.1.2.1; 5.3.1.2.2)
- I can classify and identify different materials that come from our Earth. (5.3.1.2.1; 4.3.1.3.1; 4.3.1.3.2)
- I can explain how water cycles through our Earth. (4.3.2.3.1)
- I can describe different movements found in our solar system. (3.3.3.1.1; 3.3.3.1.2)
- I can identify different parts of our solar system. (3.3.3.2.1; 3.3.3.2.2)
- I can explain how humans can impact our Earth and its resources. (4.3.4.1.1; 5.3.4.1.3; 5.4.4.1.1)
- I can identify and give examples of our Earth's resources. (5.3.4.1.1; 5.3.4.1.2)
- **Life Science:**
- I can classify different objects, including living things. (3.4.1.1.2)
- I can compare different structures that plants and animals have and how they help that animal or plant survive in their environment. (3.4.1.1.1; 3.4.3.2.2; 5.4.1.1.1)
- I can describe different types of ecosystems and explain how the living and nonliving parts of the ecosystem are dependent upon one another. (5.4.2.1.1; 5.4.2.1.2)
- I can explain how offspring are usually like their parents, but can inherit different traits. (3.4.3.2.1)
- I can describe how microorganisms, or germs, can get into our bodies and make us sick. (4.4.4.2.1; 4.4.4.2.2)