

Fourth Grade Science Power Standards

Revised 2019

Practice of Engineering

1. I can describe the positive and negative impacts that structures, processes, and systems, created by engineers to improve our society, and that one invention may lead to other inventions as the needs of society change.
2. I understand that engineering design is the process of identifying problems, developing many solutions, and selecting the best possible solution.

Matter

3. I can distinguish between solids, liquids and gases in terms of shape and volume.
4. I understand that matter has properties that can be measured such as temperature, volume, weight, and length using appropriate tools and units.

Energy

5. I understand that energy appears in different forms, including heat and electromagnetism.
6. I can identify ways to generate heat energy, construct simple electrical circuits using wires, batteries and light bulbs, and demonstrate how an electric current can produce a magnetic force.

Rocks and Minerals

7. I understand that rocks are earth materials that are made of mixtures of different minerals and that I can test and identify minerals by streak, luster, hardness, and their reaction to vinegar.

Water Cycle

8. I can identify where water collects on earth and circulates through the earth's crust, oceans and atmosphere in what is known as the water cycle.
9. I can describe methods people utilize to use water in their homes and communities and what affect that has on water supply and quality.

Microorganisms and Body Defenses

10. I understand that microorganisms can get inside one's body and they may keep it from working properly.
11. I can recognize that the body has defense systems against germs, including tears, saliva, skin and blood.