

Science – Grade 4
Hartley-Melvin-Sanborn CSD
Grade Level/Course Benchmarks

Students will:

1. Plan and conduct simple investigations (e.g. formulates a testable question, makes observations, makes logical conclusions). (GENERAL)
2. Use appropriate tools and simple equipment (e.g. thermometers, magnifiers, microscopes, calculators, graduated cylinders) to gather scientific data and extend the senses. (GENERAL)
3. Understand that the body of scientific knowledge is under constant change. (GENERAL)
4. Know that technology and science impact each other. (GENERAL)
5. Understand that human activity affects environments. (GENERAL)
6. Know that reproduction is a characteristic of all living things and is essential for the continuation of a species. (LIFE)
7. Know that many characteristics of an organism are inherited from its parents and other characteristics result from interactions with the environment. (LIFE)
8. Know that living organisms have distinct structures; and body structures that serve specific functions (LIFE)
9. Classify flowering and conifer plants, identify and group plant parts, and know the function of react part. (LIFE)
10. Know that changes in the environment can have different effects on different organisms. (LIFE)
11. Know that matter has different states and that each state has a distinct physical properties and some common materials can be changes from one state to another by heating or cooling. (PHYSICAL)
12. Know that substances react chemically in characteristic ways with other substances to form new substances with different properties. (PHYSICAL)
13. Know that when a force is applied to an object, the object either speeds up, slows down, or goes in a different direction. (PHYSICAL)
14. Know the relationship between the strength of a force and its effect on an object. (PHYSICAL)

15. Describe the characteristics of simple machines and how they make work easier. (PHYSICAL)
16. Understand the earth's water sources, movement and importance. (EARTH)
17. Know that rock is composed of different combinations of minerals. (EARTH)
18. Know that the earth is comprised of layers (e.g. core, mantle, and crust). (EARTH)

Revised 2004-2005 Science Benchmark Day
K-4 team Lisa Lode