

Sixth Grade Science

Cells and Microbes

- 1;1;1 Identify questions that can be answered through scientific investigations.
- 1;2;2 Develop questions and adapt the inquiry process to guide an investigation.
- 3;1;2 Relate the structure of cells, organs, tissues, systems and organisms to their functions.
- 3;1;3 Compare organisms composed of single cells with organisms that are multicellular.
- 3;1;4 Conclude that breakdowns in structure or function of an organism may be caused by disease, damage, heredity, or aging
- 7;2;1 Relate contributions of men and women to the fields of science.

The Changing Earth-Geology

- 1;1;1 Identify questions that can be answered through scientific investigations.
- 1;1;3 Use appropriate tools, mathematics, technology, and techniques to gather, analyze and interpret data.
- 4;1;4 Model earth's plate movements that result in major geologic events and landform development.
- 4;2;4 Compare the current arrangement of the continents with the arrangement of continents throughout the earth's history.
- 4;4;1 Demonstrate object/space/time relationships that explain phenomena such as day, month, year, and seasons.
- 6;3;2 Recognize patterns of internal and external earth processes that may result in natural hazards.
- 6;3;3 Communicate human activities that can cause/contribute to natural hazards.
- 7;2;3 Relate contributions of men and women to the fields of science

The Nature of Matter

- 1;1;1 Identify questions that can be answered through scientific investigations.
- 1;2;1 Differentiate between a qualitative and a quantitative investigation.
- 2;1;1 Identify and communicate properties of matter, including phases of matter, boiling point, solubility, and density.
- 2;1;2 Using the characteristic properties of each original substance, distinguish components of various types of mixtures.
- 2;2;1 Measure and graph the effects of temperature on matter.
- 2;2;2 Understand that total mass is conserved in chemical reactions.
- 2;2;3 Understand the relationship of elements to compounds.
- 7;2;3 Relate the contributions of men and women to the fields of science

Continuity of Life

- 3;2;1 Conclude that reproduction is essential to the continuation of a species.
- 3;2;2 Differentiate between asexual and sexual reproduction in plants and animals.

Forces and Motion

- 1;1;1 Identify questions that can be answered through scientific investigations.
- 2;3;1 Describe motion of an object (position, direction, speed, potential & kinetic energy).
- 2;3;2 Measure motion and represent data in a graph.
- 2;3;3 Demonstrate an understanding of the Law of Inertia.
- 2;3;4 Demonstrate that unbalanced forces will cause changes in the speed or direction of an object's motion.
- 2;3;5 Understand that a force (gravity and friction) is a push or a pull.
- 5;1;2 Design a solution or product, implement, evaluate the product.
- 7;2;3 Relate contributions of men and women to the fields of science