

Fifth Grade Science Objectives

Water & Wetlands - *The student will be able to:*

- 5.1.1 describe the steps of the water cycle, including a description of water storage.
- 5.1.2 investigate and identify point and nonpoint sources of water pollution.
- 5.1.3 simulate the steps in the water treatment process.
- 5.1.4 identify the characteristics of a wetland.
- 5.1.5 identify a wetland food web.
- 5.1.6 examine the filtering function of a wetland.
- 5.1.7 summarize the effects of land use on habitat.

Chemistry - *The student will be able to:*

- 5.2.1 investigate and explain the physical properties of matter including mass, density, and volume.
- 5.2.2 explain and illustrate that matter can be described and classified as elements, compounds and mixtures.
- 5.2.3 observe and describe that matter can change both physically and chemically.
- 5.2.4 identify questions and form hypotheses that can be examined through scientific investigations.
- 5.2.5 investigate and communicate that women and men of various social and ethnic backgrounds engage in the activities of chemistry.

Rocks and Minerals - *The students will be able to:*

- 5.3.1 identify the properties of rocks and minerals.
- 5.3.2 describe, identify, and classify rocks as sedimentary, metamorphic, or igneous based on their formation.
- 5.3.3 identify minerals through results of the luster, streak, hardness, and acid test.
- 5.3.4 discuss and interpret the characteristics of crystal formation.
- 5.3.5 discuss and compare how rocks and minerals were used in the past and how they are used today.

Scientific Investigations - *The student will be able to:*

- 5.4.1 understand the use of measurement tools (ruler, graduated cylinder, thermometer, balance, dropper) that are used in science.
- 5.4.2 identify and apply the components of a scientific investigation (question, controlled and manipulate variables, hypothesis, procedure, results, and conclusion).