

**Bethlehem Lutheran School, Lakewood, CO**  
**Science Curriculum Grade 2 (revised 4/01)**

*God created, rules and orders His universe. Science is the framework through which we discover, observe, analyze and synthesize the natural laws of God's creation. Understanding these laws and the systematic nature of the world assists and enhances the student's awareness and ability to be a better steward of God's earth and universe.*

*Science provides a conceptual framework for the understanding of natural phenomena and their causes and effects. Science study develops students who are scientifically literate, able to recognize that science is not value-free, and are capable of making ethical and moral judgments regarding science, social and technological issues.*

*To provide the student with an understanding of God's creation in the areas of Life Science, Physical Science, and Earth Science through facts, observation, and experimentation.*

**State Standard 1**

*Students understand the processes of scientific investigation and design, conduct, communicate about and evaluate such investigations.*

**Classroom objectives**

1.1 The science program will provide students with a study and basic understanding of the universe that God created for us to use, care for, and enjoy, also it will provide this understanding of God and His universe through factual knowledge, experimentation, inquiry, observation and cooperative learning situations.

**State Standard 2**

*Physical Science: Students know and understand common properties, forms, and changes in matter and energy.*

**Classroom objectives**

- 2.1 The student will be able to recognize how matter produces sound through vibration.
- 2.2 The student will be able to define "light" and demonstrate an understanding of how light travels.
- 2.3 The student will be able to identify the different sources of heat, and why all living things require heat.

**State Standard 3**

*Life Science: Students know and understand the characteristics and structure of living things, the processes of life, and how living things interact with each other and their environment.*

**Classroom objectives**

- 3.1 The student will be able to recognize and describe the characteristics of insects, fish, amphibians, reptiles, birds, and mammals.
- 3.2 The student will be able to compare their physical appearances and abilities during various phases of growth.
- 3.3 The student will be able to generalize the importance of plants and how they grow.

**State Standard 4**

*Earth and Space Science: Students know and understand the processes and interactions of Earth's systems and the structure and dynamics of Earth and other objects in space.*

### **Classroom objectives**

- 4.1 The student will be able to identify and compare the Earth's land formations, and observe how the Earth has changed and is still changing today.
- 4.2 The student will be able to classify conditions in the air which create the earth's weather.
- 4.3 The student will be able to understand and appreciate the vastness of our solar system and its components.
- 4.4 The student will be able to appreciate the earth's environment, including all resources available.

### **State Standard 5**

*Students know and understand interrelationships among science, technology and human activity and how they can affect the world.*

### **Classroom objectives**

- 5.1 Students will use a variety of materials to make simple products and identify what can be recycled and what cannot.
- 5.2 Students will identify careers that use science and technology.
- 5.3 Student will identify use of technology in their everyday life.

### **State Standard 6**

*Students understand that science involves a particular way of knowing and understand common connections among scientific disciplines.*

### **Classroom objectives**

- 6.1 To appreciate and have a better understanding of the complexity of God's wonderful and vast creation.
- 6.2 To recognize our uniqueness and to take responsibility for our universe.