

**INDEPENDENT SCHOOL DISTRICT OF BOISE CITY
IDAHO ACHIEVEMENT STANDARDS
KINDERGARTEN
SCIENCE**

Standard 1: Nature of Science

Students explore the process of scientific investigation through observations and collection of data over time. Students follow instructions and work with others.

Goal 1.1: Understand Systems, Order, and Organization

No objectives at this grade level.

Goal 1.2: Understand Concepts and Processes of Evidence, Models, and Explanations

Objective(s): By the end of Kindergarten, the student will be able to:

K.S.1.2.1 Make observations and collect data.

Goal 1.3: Understand Constancy, Change, and Measurement

Objective(s): By the end of Kindergarten, the student will be able to:

K.S.1.3.1 Measure in non-standard units.

Goal 1.4: Understand the Theory that Evolution is a Process that Relates to the Gradual Changes in the Universe and of Equilibrium as a Physical State

Objective(s): By the end of Kindergarten, the student will be able to:

K.S.1.4.1 Apply the concepts of yesterday, today, and tomorrow.

Goal 1.5: Understand Concepts of Form and Function

No objectives at this grade level.

Goal 1.6: Understand Scientific Inquiry and Develop Critical Thinking Skills

Objective(s): By the end of Kindergarten, the student will be able to:

K.S.1.6.1 Make observations.

Goal 1.7: Understand That Interpersonal Relationships Are Important in Scientific Endeavors

Objective(s): By the end of Kindergarten, the student will be able to:

K.S.1.7.1 Use cooperation and interaction skills.

Goal 1.8: Understand Technical Communication

Objective(s): By the end of Kindergarten, the student will be able to:

K.S.1.8.1 Follow instructions.

Standard 2: Physical Science

Students use their senses to investigate the organizational patterns in the world around them and describe a variety of objects.

Goal 2.1: Understand the Structure and Function of Matter and Molecules and Their Interactions

Objective(s): By the end of Kindergarten, the student will be able to:

K.S.2.1.1 Use senses to describe matter.

Goal 2.2: Understand Concepts of Motion and Forces

No objectives at this grade level.

Goal 2.3: Understand the Total Energy in the Universe is Constant

No objectives at this grade level.

Goal 2.4: Understand the Structure of Atoms

No objectives at this grade level.

Goal 2.5: Understand Chemical Reactions

No objectives at this grade level.

Standard 3: Biology

Students observe plants and animals and describe their characteristics.

Goal 3.1: Understand the Theory of Biological Evolution

Objective(s): By the end of Kindergarten, the student will be able to:

K.S.3.1.1 Observe and describe the characteristics of plants and animals.

Goal 3.2: Understand the Relationship between Matter and Energy in Living Systems

Objective(s): By the end of Kindergarten, the student will be able to:

K.S.3.2.1 Describe the difference between living and non-living things.

Goal 3.3: Understand the Cell is the Basis of Form and Function for All Living Things

No objectives at this grade level.

Standard 4: Earth and Space Systems

Students make and describe observations of seasonal changes.

Goal 4.1: Understand Scientific Theories of Origin and Subsequent Changes in the Universe and Earth Systems

Objective(s): By the end of Kindergarten, the student will be able to:

K.S.4.1.1 Name the four seasons.

K.S.4.1.2 Place the four seasons in order.

Goal 4.2: Understand Geo-chemical Cycles and Energy in the Earth System

No objectives at this grade level.

Standard 5: Personal and Social Perspectives; Technology

Students describe local environments

Goal 5.1: Understand Common Environmental Quality Issues, Both Natural and Human Induced

Objective(s): By the end of Kindergarten, the student will be able to:

K.S.5.1.1 Describe characteristics of a man-made environment (home, school...).

Goal 5.2: Understand the Relationship between Science and Technology

No objectives at this grade level.

Goal 5.3: Understand the Importance of Natural Resources and the Need to Manage and Conserve Them

No objectives at this grade level.