

DoDEA Grade 2 Science Standards

S1: Scientific Inquiry

The student demonstrates abilities necessary to do scientific inquiry and an understanding about scientific inquiry; that is, the student:

S1a: asks questions about objects, organisms, events, and relationships in the environment.

S1b: accesses and uses information from a variety of sources.

S1c: plans and conducts explorations and investigations.

S1d: employs equipment and tools to systematically gather and record data.

S1e: uses recorded data to construct reasonable explanations and make predictions.

S1f: communicates scientific explorations, investigations and explanations through speaking, drawing, and writing.

S2: History and Nature of Science

The student demonstrates an understanding of science as a human endeavor; that is, the student:

S2a: demonstrates curiosity, initiative, and persistence in thinking about and doing science.

S2b: works alone and together as a team member when engaged in science and communicates findings to others.

S2c: recognizes that people of all ages, backgrounds, and groups make contributions to science and technology.

S3: Science in Personal and Social Perspectives

The student demonstrates an understanding of safety, types of resources, and changes in the environment; that is, the student:

S3a: practices personal and group safety when engaged in science at school.

S3b: compares the needs of a population with the sources and quantities of resources.

S3c: practices conservation of resources.

S4: Science and Technology

The student demonstrates an understanding of science and technology and the nature of technological design; that is, the student:

S4a: knows that people use science and technology to answer questions and solve problems.

S4b: explains areas in which technology has impacted human lives.

S4c: explains that people are always inventing new tools and ways of doing things.

S5: Physical Science

The student demonstrates a conceptual understanding of matter, motion and energy; that is, the student:

S5a: compares and contrasts observable properties and changes in states of matter.

S5b: describes positions and motion of objects and explains relationships between motion and applied forces.

S5c: examines production of light and heat as forms of energy.

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S6: Life Science

The student demonstrates a conceptual understanding of the characteristics of organisms, their life cycles, and their environments; that is, the student:

S6a: describes and compares the basic needs of plants and animals in different environments.

S6b: explores the environmental factors that impact the life spans and life cycles of organisms.

S6c: identifies the needs/behaviors of organisms and suggests how organisms can adapt to their particular environment (e.g., fresh water, marine, forest, desert, grassland, etc.)

S7: Earth and Space Sciences

The student demonstrates a conceptual understanding of Earth materials, objects in the sky, and changes in Earth and sky; that is, the student:

S7a: compares and contrasts Earth's materials, atmospheric gases, and water, and explores their role as natural resources.

S7b: explains how changes in the Earth and the sky cause weather and seasonal changes.

S7c: identifies patterns of objects in the sky.