

DoDEA Grade 3 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 based on the nature of the question.
- S1d:** employs appropriate equipment and tools to systematically gather, record, and analyze data.
- S1e:** uses revised data to construct reasonable explanations and make predictions.
- S1f:** communicates investigations and explanations using scientific language and mathematics.

S2: History and Nature of Science

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

- S2a:** demonstrates curiosity and persistence, and begins to use reasoning in thinking about and doing science.
- S2b:** knows that in science people work alone or as a team member to share and critique new information with others.
- S2c:** describes how careers in science have changed throughout history.
- S2d:** describes the variety of contributions made by men and women scientists of different cultures throughout history.

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.
- S3b:** compares the needs of a population with sources and changes in environmental resources.
- S3c:** practices conservation of resources.

S4: Science and Technology

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

- S4a:** understands how tools, technology and inventions are designed to answer questions and help solve problems.
- S4b:** understands how tools, technology and inventions impact people and other living organisms.
- S4c:** recognizes that people are always inventing new tools, technology and inventions.

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S5: Physical Science

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

S5a: sorts, classifies, and describes physical properties of objects and materials.

S5b: describes and measures the position and motion of objects relative to other objects, time, and distance.

S5c: explores electricity and sound as forms of energy.

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: classifies plants and animals in multiple ways according to their characteristics.

S6b: explores how organisms clearly resemble their parents.

S6c: describes how an organism's behavior is influenced by its environment.

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: identifies and describes specific properties of minerals, soils, and fossils.

S7b: describes the formation and movement of clouds and their role in weather.

S7c: observes, records, and describes objects in the sky (e.g., sun, moon, constellations, etc.) in terms of characteristics, location, and movement.