

1st Grade Science TEKS

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Knowledge and skills.

(1) Scientific investigation and reasoning. The student conducts classroom and outdoor investigations following home/school safety procedures and uses environmentally responsible practices. – Science Investigation Skills

The student is expected to:

- (A) recognize and demonstrate safe practices as described in the Texas Safety Standards during classroom and outdoor investigations, including wearing safety goggles, washing hands, and using materials appropriately;
- (B) recognize the importance of safe practices to keep self and others safe and healthy; and
- (C) identify and learn how to use natural resources and materials, including conservation and reuse or recycling of paper, plastic, and metals.

(2) Scientific investigation and reasoning. The student develops abilities to ask questions and seek answers in classroom and outdoor investigations. – Science Reasoning Skills

The student is expected to:

- (A) ask questions about organisms, objects, and events observed in the natural world;
- (B) plan and conduct simple descriptive investigations such as ways objects move;
- (C) collect data and make observations using simple equipment such as hand lenses, primary balances, and non-standard measurement tools;
- (D) record and organize data using pictures, numbers, and words; and
- (E) communicate observations and provide reasons for explanations using student-generated data from simple descriptive investigations.

(3) Scientific investigation and reasoning. The student knows that information and critical thinking are used in scientific problem solving. – Science Reasoning Skills

The student is expected to:

- (A) identify and explain a problem such as finding a home for a classroom pet and propose a solution in his/her own words;
- (B) make predictions based on observable patterns; and
- (C) describe what scientists do

(4) Scientific investigation and reasoning. The student uses age-appropriate tools and models to investigate the natural world. – Science Investigation Skills

The student is expected to:

- (A) collect, record, and compare information using tools, including computers, hand lenses, primary balances, cups, bowls, magnets, collecting nets, notebooks, and safety goggles; timing devices, including clocks and timers; non-standard measuring items such as paper clips and clothespins; weather instruments such as classroom demonstration thermometers and wind socks; and materials to support observations of habitats of organisms such as aquariums and terrariums; and
- (B) measure and compare organisms and objects using non-standard units.

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(5) Matter and energy. The student knows that objects have properties and patterns.

The student is expected to:

(A) classify objects by observable properties of the materials from which they are made such as larger and smaller, heavier and lighter, shape, color, and texture; and

-STAAR Readiness Standard for 5th Grade (5.5A Classifying Matter)

(B) predict and identify changes in materials caused by heating and cooling such as ice melting, water freezing, and water evaporating.

-STAAR Supporting Standard for 5th Grade (3.5C Adding/Removing Heat to Matter)

(6) Force, motion, and energy. The student knows that energy, force, and motion are related and are a part of everyday life.

The student is expected to:

(A) identify and discuss how different forms of energy such as light, heat, and sound are important to everyday life;

-STAAR Readiness Standard for 5th Grade (5.6A Forms of Energy and their Use)

(B) predict and describe how a magnet can be used to push or pull an object;

-STAAR Supporting Standard for 5th Grade (5.6D Force and Motion)

(C) describe the change in the location of an object such as closer to, nearer to, and farther from; and

-STAAR Supporting Standard for 5th Grade (3.6B Force and Work)

(D) demonstrate and record the ways that objects can move such as in a straight line, zig zag, up and down, back and forth, round and round, and fast and slow.

-STAAR Supporting Standard for 5th Grade (3.6B Force and Work)

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(7) Earth and space. The student knows that the natural world includes rocks, soil, and water that can be observed in cycles, patterns, and systems.

The student is expected to:

(A) observe, compare, describe, and sort components of soil by size, texture, and color;

-STAAR Supporting Standard for 5th Grade (4.7A Properties of Soil)

(B) identify and describe a variety of natural sources of water, including streams, lakes, and oceans; and

-STAAR Supporting Standard for 5th Grade (5.8B Interaction between Sun and Water) and (4.8B Water Cycle above and on Earth Surface)

(C) gather evidence of how rocks, soil, and water help to make useful products.

-STAAR Supporting Standard for 5th Grade (4.7C Renewable and Nonrenewable Resources)

(8) Earth and space. The student knows that the natural world includes the air around us and objects in the sky.

The student is expected to:

(A) record weather information, including relative temperature, such as hot or cold, clear or cloudy, calm or windy, and rainy or icy;

-STAAR Supporting Standard for 5th Grade (5.8A Weather vs Climate)

(B) observe and record changes in the appearance of objects in the sky such as clouds, the Moon, and stars, including the Sun;

-STAAR Supporting Standard for 5th Grade (4.8C Sequences and Patterns on Earth) and Readiness Standard (5.8C The apparent movement of the sun across the Sky)

(C) identify characteristics of the seasons of the year and day and night; and

-STAAR Supporting Standard for 5th Grade (4.8C Sequences and Patterns on Earth)

(D) demonstrate that air is all around us and observe that wind is moving air.

-STAAR Supporting Standard for 5th Grade (4.8C Sequences and Patterns on Earth)

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(9) Organisms and environments. The student knows that the living environment is composed of relationships between organisms and the life cycles that occur.

The student is expected to:

(A) sort and classify living and nonliving things based upon whether or not they have basic needs and produce offspring; *-STAAR Readiness Standard for 5th Grade (5.9A How Organisms interact with environment to Live and Survive)*

(B) analyze and record examples of interdependence found in various situations such as terrariums and aquariums or pet and caregiver; and

-STAAR Readiness Standard for 5th Grade (5.9A How Organisms interact with environment to Live and Survive)

(C) gather evidence of interdependence among living organisms such as energy transfer through food chains and animals using plants for shelter.

-STAAR Readiness Standard for 5th Grade (5.9B Flow of Energy in Organisms) and Supporting Standard (5.9C Effect on Organisms by Competitors, Invasive Species, or Humans)

(10) Organisms and environments. The student knows that organisms resemble their parents and have structures and processes that help them survive within their environments.

The student is expected to:

(A) investigate how the external characteristics of an animal are related to where it lives, how it moves, and what it eats; *-STAAR Readiness Standard for 5th Grade (5.10A Structures and Functions of Species to Live and Survive)*

(B) identify and compare the parts of plants;

-STAAR Readiness Standard for 5th Grade (5.10A Structures and Functions of Species to Live and Survive)

(C) compare ways that young animals resemble their parents; and

-STAAR Readiness Standard for 5th Grade (5.10B Inherited Traits and Learned Behavior in Organisms)

(D) observe and record life cycles of animals such as a chicken, frog, or fish.

-STAAR Supporting Standard for 5th Grade (3.10B Life Cycles of Organisms)