



2022-2023
Grade 5 Science
Scope & Sequence

**Readiness Standards

*Supporting Standards

1st Six Weeks

Week 1	Tools & Safety, Science Investigations, Science Inquiry, and 1 st Week procedures
Category 1: Matter and Energy	
Week 2	<i>Matter and Physical Properties</i> Tools & Safety, Science Investigations, and Science Inquiry
	* 3.5(C) predict, observe, and record changes in the state of matter caused by heating or cooling such as ice becoming liquid water, condensation forming on the outside of a glass of ice water, or liquid water being heated to the point of becoming water vapor.
Week 3	<i>Matter and Physical Properties</i> * 3.5(C) predict, observe, and record changes in the state of matter caused by heating or cooling such as ice becoming liquid water, condensation forming on the outside of a glass of ice water, or liquid water being heated to the point of becoming water vapor.
	**5.5(A) classify matter based on measurable, testable, and observable physical properties, including mass, magnetism, physical state (solid, liquid, and gas), relative density (sinking and floating using water as a reference point), solubility in water, and the ability to conduct or insulate thermal energy or electric energy;
Week 4	**5.5(A) classify matter based on measurable, testable, and observable physical properties, including mass, magnetism, physical state (solid, liquid, and gas), relative density (sinking and floating using water as a reference point), solubility in water, and the ability to conduct or insulate thermal energy or electric energy;
Week 5	**5.5(B) demonstrate that some mixtures maintain physical properties of their ingredients such as iron filings and sand and sand and water;
Week 6	**5.5 (C) identify changes that can occur in the physical properties of the ingredients of solutions such as dissolving salt in water or adding lemon juice to water.
	1st Six Weeks Test

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2nd Six Weeks

Week 7

** 5.6(A) explore the uses of energy, including mechanical, light, thermal, electrical, and sound energy;

Force and Motion

Week 8

** 5.6(A) explore the uses of energy, including mechanical, light, thermal, electrical, and sound energy;

**5.6(B) demonstrate that the flow of electricity in closed circuits can produce light, heat, or sound;

Week 9

**5.6(B) demonstrate that the flow of electricity in closed circuits can produce light, heat, or sound;

**5.6(C) demonstrate that light travels in a straight line until it strikes an object and is reflected or travels through one medium to another and is refracted;

Week 10

**5.6(C) demonstrate that light travels in a straight line until it strikes an object and is reflected or travels through one medium to another and is refracted;

Week 11

*5.6 (D) design a simple experimental investigation that tests the effect of force on an object.

2nd Six Weeks Test

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3rd Six Weeks

Force and Motion

Week 12	*3.6 (B) demonstrate and observe how position and motion can be changed by pushing and pulling objects such as swings, balls, and wagons.
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Earth and Space

Week 13	**5.7(A) explore the processes that led to the formation of sedimentary rocks and fossil fuels; 5.7 identify fossils as evidence of past living organisms and the nature of the environments a the time using models
Week 14	*4.7(C) identify and classify Earth’s renewable resources, including air, plants, water, and animals; and nonrenewable resources, including coal, oil, and natural gas; and the importance of conservation. 5.7 identify alternative energy resources such as wind, solar, hydroelectric, geothermal, and biofuels
11/22-11/26	Thanksgiving Holidays
Week 15	*4.7(A) examine properties of soils, including color and texture, capacity to retain water, and ability to support the growth of plants;
Week 16	*5.7(B) recognize how landforms such as deltas, canyons, and sand dunes are the result of changes to Earth’s surface by wind, water, or ice. *3.7(B) investigate rapid changes in Earth’s surface such as volcanic eruptions, earthquakes, and landslides.
	3rd Six Weeks Test
12/17-1/3	Winter Break



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4th Six Weeks

Earth and Space

Week 17	*5.8(B) explain how the Sun and the ocean interact in the water cycle;
Week 18	*5.8(B) explain how the Sun and the ocean interact in the water cycle;
Week 19	*4.8(B) describe and illustrate the continuous movement of water above and on the surface of Earth through the water cycle and explain the role of the Sun as a major source of energy in this process;
Week 21	**5.8(C) demonstrate that Earth rotates on its axis once approximately every 24 hours causing the day/night cycle and the apparent movement of the Sun across the sky;
Week 22	*4.8(C) collect and analyze data to identify sequences and predict patterns of change in shadows, seasons, and the observable appearance of the Moon over time.
Week 23	*5.8(D) identify and compare the physical characteristics of the Sun, Earth, and Moon.

4th Six Week Test



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5th Six Weeks

Earth and Space

Week 24	*3.8(D) identify the planets in Earth's solar system and their position in relation to the Sun.
Week 25	**5.9(A) observe the way organisms live and survive in their ecosystem by interacting with the living and nonliving components
Week 26	**5.9(B) describe the flow of energy within a food web, including the roles of the Sun, producers, consumers, and decomposers *3.10(B) investigate and compare how animals and plants undergo a series of orderly changes in their diverse life cycles such as tomato plants, frogs, and lady beetles
Week 27	*5.9(C) predict the effects of changes in ecosystems caused by living organisms, including humans, such as the overpopulation of grazers or the building of highways.
Week 28	*5.9(D) identify fossils as evidence of past living organisms and the nature of the environments at the time using models *3.9(A) observe and describe the physical characteristics of environments and how they support populations and communities of plants and animals within an ecosystem
Week 29	**5.10(A) compare the structures and functions of different species that help them live and survive in a specific environment such as hooves on prairie animals or webbed feet in aquatic animals
Week 30	**5.10(B) differentiate between inherited traits of plants and animals such as spines on a cactus or shape of a beak and learned behaviors such as an animal learning tricks or a child riding a bicycle.



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6th Six Weeks

Earth and Space

Week 31	STAAR Review
Week 32	STAAR Review
Week 33	STAAR Review
Week 34	STAAR Review
Week 35	EOY
Week 36	EOY