

**First Semester**

**1st Six Weeks (26 PISD days)**

**Introduction – Policies and Procedures (2 days)**

**Processes for Scientific Investigations (2 days for the entire unit)**

Process Standards: 5.1A, 5.1B, 5.2A, 5.2B, 5.2C, 5.2D, 5.2E, 5.2F, 5.2G, 5.3A, 5.3B, 5.3C, 5.4A

**Unit 1: Investigating Physical Properties of Matter (20 days)**

Process Standards: 5.1A, 5.1B, 5.2A, 5.2B, 5.2C, 5.2D, 5.2F, 5.2G, 5.3A, 5.4A,

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

5.5(B) demonstrate that some mixtures maintain physical properties of their ingredients such as iron filings and sand or sand and water

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

Review 3.5(C) predict, observe and record changes in the state of matter caused by heating or cooling such as ice becoming liquid water or condensation forming on the outside of a glass of ice water or liquid water being heated to the point of becoming water vapor

**Review and SW Test – 4 days**

**2nd Six Weeks (29 PISD days)**

**Unit 2: Investigating Forms of Energy (21 days)**

Process Standards: 5.1A, 5.2A, 5.2B, 5.2C, 5.2D, 5.2E, 5.2F, 5.3A, 5.3B, 5.4A

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

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

**Science Camp**

**and SW Test – 4 days**

**3rd Six Weeks (30 PISD days)**

**Unit 3: Investigating Forces (5 Days)**

Process Standards: 5.1A, 5.2A, 5.2B, 5.2C, 5.2D, 5.2E, 5.2F, 5.2G, 5.3A, 5.3B, 5.3C, 5.4A, 5.6(D) design a simple experimental investigation that tests the effect of force on an object

Review 3.6(B) demonstrate and observe how position and motion can be changed by pushing and pulling objects such as swings, balls, and wagons

**Unit 4: Investigating Earth's Changes (15 days)**

Process Standards: 5.1A, 5.2B, 5.2C, 5.2D, 5.2F, 5.3A, 5.3B, 5.3C, 5.4A,

5.7(A) explore the processes that led to the formation of sedimentary rocks and fossil fuels

5.7(B) recognize how landforms such as deltas, canyons, & sand dunes are the result of changes to Earth's surface by wind, water, or ice

Review 3.7(B) investigate rapid changes in Earth's surface such as volcanic eruptions, earthquakes, and landslides

Review 4.7(A) examine properties of soils, including color and texture, capacity to retain water, and ability to support the growth of plants

Review 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

**Unit 9: Investigating Fossils and the Environment (5 days)**

Process Standards: 5.1A, 5.2B, 5.2C, 5.2D, 5.2F, 5.3A, 5.3B, 5.4A

5.9(D) identify fossils as evidence of past living organisms and the nature of the environments at the time using models

Review and SW Test – 4 days

## Second Semester

**4th Six Weeks (31 PISD days)****Unit 5: Investigating Water and Weather Patterns (10 days)**

Process Standards: 5.1A, 5.1B, 5.2B, 5.2C, 5.2D, 5.2F, 5.3A, 5.3B, 5.4A,

5.8(A) differentiate between weather and climate

5.8(B) explain how the Sun and the ocean interact in the water cycle

Review 4.8(A) measure, record, and predict changes in weather

Review 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

**Unit 6: Investigating the Sun, Earth and Moon Systems (15 days)**

Process Standards: 5.1A, 5.2B, 5.2C, 5.2D, 5.2F, 5.3A, 5.3B, 5.3C, 5.4A

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

5.8(D) identify and compare the physical characteristics of the Sun, Earth, and Moon

Review 3.8(D) identify the planets in Earth's solar system and their position in relation to the Sun

Review 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

Review and SW Test – 4 days

**5th Six Weeks (30 PISD days)****Unit 7: Investigating Ecosystem Interactions (15 days)**

Process Standards: 5.1A, 5.1B, 5.2B, 5.2C, 5.2D, 5.2F, 5.3B, 5.3C, 5.4A,

5.9(A) observe the way organisms live and survive in their ecosystem by interacting with the living and nonliving components

5.9(B) describe the flow of energy within a food web, including the roles of the Sun, producers, consumers, and decomposers

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

Review: 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

**Unit 8: Investigating Structure and Behavior of Organisms (10 days)**

Process Standards: 5.1A, 5.2B, 5.2C, 5.2D, 5.2F, 5.3A, 5.3C, 5.4A,

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

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

Review 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

<b>PSTAAR is the SW test</b>
<b>6th Six Weeks (32 PISD days)</b>
<b>STAAR Review – 15 days</b>  <b>STAAR Test</b>  <b>After STAAR – Human Body and Health (8 - 10 days)</b>  <b>No SW test due to STAAR test this SW</b>

<p><b>RED - Readiness standards have the following characteristics</b></p> <ul style="list-style-type: none"> <li>• About 2 questions per readiness standard</li> <li>• Total: 22-24 questions per test</li> <li>• They are essential for success in the current grade or course.</li> <li>• They are important for preparedness for the next grade or course.</li> <li>• They support college and career readiness.</li> <li>• They necessitate in-depth instruction.</li> <li>• They address broad and deep ideas.</li> </ul>	<p><b>Supporting standards have the following characteristics.</b></p> <ul style="list-style-type: none"> <li>• Total: 12-14 questions per test</li> <li>• Although introduced in the current grade or course, they may be emphasized in a subsequent year.</li> <li>• Although reinforced in the current grade or course, they may be emphasized in a previous year.</li> <li>• They play a role in preparing students for the next grade or course but not a central role.</li> <li>• They address more narrowly defined ideas.</li> </ul>
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3<sup>rd</sup> or 4<sup>th</sup> grade TEKS that can be testing on the 5<sup>th</sup> grade science STAAR test