

Test Code	Year	Form
3051	25	3
Last Revision Date: 8/4/2025		

**ACP Blueprint
Grade 5 Science
Semester 1, 2025–2026**

SE Descriptions			Reporting Category	TEKS/SE	R or S	No. of Items	% of Test
1. Compare and contrast matter based on measurable, testable, or observable physical properties, including mass, magnetism, relative density (sinking and floating using water as a reference point), physical state (solid, liquid, gas), volume, solubility in water, and the ability to conduct or insulate thermal energy and electric energy.			1	5.6A	R	4	15%
2. Demonstrate and explain that some mixtures maintain physical properties of their substances such as iron filings and sand or sand and water.			1	5.6B	S	2	7.4%
3. Compare the properties of substances before and after they are combined into a solution and demonstrate that matter is conserved in solutions.			1	5.6C	S	2	7.4%
4. Investigate and explain how equal and unequal forces acting on an object cause patterns of motion and transfer of energy.			2	5.7A	S	2	7.4%
5. Design a simple experimental investigation that tests the effect of force on an object in a system such as a car on a ramp or a balloon rocket on a string.			2	5.7B	S	2	7.4%
6. Demonstrate that electrical energy in complete circuits can be transformed into motion, light, sound, or thermal energy and identify the requirements for a functioning electrical circuit.			2	5.8B	R	3	11%
7. Demonstrate and explain how light travels in a straight line and can be reflected, refracted, or absorbed.			2	5.8C	R	3	11%
8. Demonstrate that Earth rotates on its axis once approximately every 24 hours and explain how that causes the day/night cycle and the appearance of the Sun moving across the sky, resulting in changes in shadow positions and shapes.			3	5.9A	R	3	11%
9. Model and describe the processes that led to the formation of sedimentary rocks and fossil fuels.			3	5.10B	R	3	11%
10. Model and identify how changes to Earth's surface by wind, water, or ice result in the formation of landforms, including deltas, canyons, and sand dunes.			3	5.10C	R	3	11%
Item Types by Point	1-point items (MC & TE Items)	24	Total		R	19	70%
	2-point items (TE Items only)	3			S	8	30%
	Total	30			All	27	100%

Note: *R* = Readiness Standard, *S* = Supporting Standard. Percentages are rounded to the nearest whole number. No reference material is printed with this test. Calculators are **NOT** permitted. **Remember this is an ONLINE only assessment.**

Reporting Categories: 1. Matter and Energy
 2. Force, Motion, and Energy
 3. Earth and Space
 4. Organisms and Environments

Scientific Investigation and Reasoning Skills Eligible for Assessment	
SE Descriptions	SE
1. Ask questions and define problems based on observations or information from text, phenomena, models, or investigations.	5.1A
2. Use scientific practices to plan and conduct descriptive investigations and use engineering practices to design solutions to problems.	5.1B
3. Demonstrate safe practices and the use of safety equipment during classroom and field investigations as outlined in Texas Education Agency-approved safety standards.	5.1C
4. Use tools, including calculators, microscopes, hand lenses, metric rulers, Celsius thermometers, prisms, concave and convex lenses, laser pointers, mirrors, digital scales, balances, spring scales, graduated cylinders, beakers, hot plates, meter sticks, magnets, collecting nets, notebooks, timing devices, materials for building circuits, materials to support observations of habitats or organisms such as terrariums and aquariums, and materials to support digital data collection such as computers, tablets, and cameras to observe, measure, test, and analyze information.	5.1D
5. Collect observations and measurements as evidence.	5.1E
6. Construct appropriate graphic organizers to collect data, including tables, bar graphs, line graphs, tree maps, concept maps, Venn diagrams, flow charts or sequence maps, and input-output tables that show cause and effect.	5.1F
7. Develop and use models to represent phenomena, objects, and processes or design a prototype for a solution to a problem.	5.1G
8. Identify advantages and limitations of models such as their size, scale, properties, and materials.	5.2A
9. Analyze data by identifying any significant features, patterns, or sources of error.	5.2B
10. Use mathematical calculations to compare patterns and relationships.	5.2C
11. Evaluate a design or object using criteria.	5.2D
12. Develop explanations and propose solutions supported by data and models.	5.3A
13. Communicate explanations and solutions individually and collaboratively in a variety of settings and formats.	5.3B
14. Listen actively to others' explanations to identify relevant evidence and engage respectfully in scientific discussion.	5.3C
15. Explain how scientific discoveries and innovative solutions to problems impact science and society.	5.4A
16. Research and explore resources such as museums, libraries, professional organizations, private companies, online platforms, and mentors employed in a science, technology, engineering, and mathematics (STEM) field to investigate STEM careers.	5.4B
17. Identify and use patterns to explain scientific phenomena or to design solutions.	5.5A

SchoolCity/STAAR Tech-Enhanced (TE) Items Comparison

SchoolCity TE Item Type	Definition	STAAR TE Item Type
Multiple Choice (MC)	Requires students to select one correct answer from several answer choices.	Multiple Choice
Multi-Part (MP)	Requires students to answer a two-part question in which Part B provides text evidence for the answer in Part A. Part A and B can be a combination of Multiple Choice and Multiple Response items.	Multipart
Multiple Response (MR)	Requires students to select two or more correct answers from several answer choices.	Multiselect
Explicit Constructed Response (XCR)	Requires students to type an exact response which is then scored by the system. Answers must match the provided response exactly to be counted as correct.	Text Entry/Equation Editor
Hot Spot (HS)	Requires students to select the correct answer(s) by clicking on one or more “hot spots” or images.	Hot Spot
Graphic Gap Match (GGM)	Requires students to drag and drop images into or next to the correct answer box(es).	Drag-&-Drop
Gap Match (GM)	Requires students to drag and drop words, phrases, or numbers into or next to the correct answer box(es).	Drag-&-Drop
Constructed Response (CR)	Student gives a brief explanation in their own words to demonstrate their understanding of content.	Short Constructed Response