

**ACP Blueprint
Grade 3 Science
Semester 1, 2015–2016**

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| Test Code | Year | Form |
| 3031 | 15 | 3 |
| Last Revision Date: 05/06/2015 | | |

| SE Descriptions | TEKS/SE | No. of Items | % of Test |
|--|---------|--------------|-----------|
| 1. Measure, test, and record physical properties of matter, including temperature, mass, magnetism, and the ability to sink or float. | 3.5A | 3 | 11% |
| 2. Describe and classify samples of matter as solids, liquids, and gases and demonstrate that solids have a definite shape and that liquids and gases take the shape of their container. | 3.5B | 2 | 7% |
| 3. Predict, observe, and record changes in the state of matter caused by heating or cooling. S | 3.5C | 2 | 7% |
| 4. Explore and recognize that a mixture is created when two materials are combined such as gravel and sand and metal and plastic paper clips. | 3.5D | 3 | 11% |
| 5. Explore different forms of energy, including mechanical, light, sound, and heat/thermal in everyday life. | 3.6A | 3 | 11% |
| 6. Demonstrate and observe how position and motion can be changed by pushing and pulling objects to show work being done such as swings, balls, pulleys, and wagons. S | 3.6B | 2 | 7% |
| 7. Observe forces such as magnetism and gravity acting on objects. | 3.6C | 3 | 11% |
| 8. Observe, measure, record, and compare day-to-day weather changes in different locations at the same time that include air temperature, wind direction, and precipitation. | 3.8A | 2 | 7% |
| 9. Describe and illustrate the Sun as a star composed of gases that provides light and heat energy for the water cycle. | 3.8B | 3 | 11% |
| 10. Construct models that demonstrate the relationship of the Sun, Earth, and Moon, including orbits and positions. | 3.8C | 2 | 7% |
| 11. Identify the planets in Earth's solar system and their position in relation to the Sun. S | 3.8D | 2 | 7% |
| Total | | 27 | |

Note: **S** = Supporting Standard. This test is consumable. Percentages are rounded to the nearest whole number. No reference material is printed with this test. Calculators are **NOT** permitted.

Scientific Investigation and Reasoning Skills Eligible for Assessment

| Descriptions | SE |
|--|------|
| 1. Demonstrate safe practices as described in the Texas Safety Standards during classroom and outdoor investigations, including observing a schoolyard habitat. | 3.1A |
| 2. Make informed choices in the use and conservation of natural resources by recycling or reusing materials such as paper, aluminum cans, and plastics. | 3.1B |
| 3. Plan and implement descriptive investigations, including asking and answering questions, making inferences, and selecting and using equipment or technology needed, to solve a specific problem in the natural world. | 3.2A |
| 4. Collect data by observing and measuring using the metric system and recognize differences between observed and measured data. | 3.2B |
| 5. Construct maps, graphic organizers, simple tables, charts, and bar graphs using tools and current technology to organize, examine, and evaluate measured data. | 3.2C |
| 6. Analyze and interpret patterns in data to construct reasonable explanations based on evidence from investigations. | 3.2D |
| 7. Demonstrate that repeated investigations may increase the reliability of results. | 3.2E |
| 8. Communicate valid conclusions supported by data in writing, by drawing pictures, and through verbal discussion. | 3.2F |
| 9. In all fields of science, analyze, evaluate, and critique scientific explanations by using empirical evidence, logical reasoning, and experimental and observational testing, including examining all sides of scientific evidence of those scientific explanations, so as to encourage critical thinking by the student. | 3.3A |
| 10. Draw inferences and evaluate accuracy of product claims found in advertisements and labels such as for toys and food. | 3.3B |
| 11. Represent the natural world using models such as volcanoes or Sun, Earth, and Moon system and identify their limitations, including size, properties, and materials. | 3.3C |
| 12. Connect grade-level appropriate science concepts with the history of science, science careers, and contributions of scientists. | 3.3D |
| 13. Collect, record, and analyze information using tools, including microscopes, cameras, computers, hand lenses, metric rulers, Celsius thermometers, prisms, wind vanes, rain gauges, pan balances, graduated cylinders, beakers, spring scales, hot plates, meter sticks, compasses, magnets, collecting nets, notebooks, sound recorders, and Sun, Earth, and Moon system models; timing devices, including clocks and stopwatches; and materials to support observations of habitats or organisms such as terrariums and aquariums. | 3.4A |
| 14. Use safety equipment as appropriate, including safety goggles and gloves. | 3.4B |