

Science Syllabus

Year	2018-2019
Required Resources	<p><u>Textbook: Fusion</u></p> <p>Clever: A launch pad for Think Central and Discovery Education</p> <p>MackinVia: A launch pad for Tumblebooks, Kids InfoBits, and National Geographic for Kids.</p> <p>Khan Academy</p>
Process Skills	<p>Conduct classroom and outdoor investigations</p> <p>Use scientific practices during laboratory and outdoor investigations</p> <p>Use critical thinking and scientific problem solving to make informed decisions</p> <p>Use a variety of tools, materials, equipment, and models to conduct science inquiry</p>



Science Syllabus

<p>Syllabus 1st Semester</p>	<p>1st Nine Weeks</p> <p>Week 1-3 Processes for Scientific Investigations Measure, compare, and contrast physical properties of matter, including mass, volume, states, temperature, magnetism, and the ability to sink or float. Assessment</p> <p>Week 4-6 Investigating Physical Properties of Matter Measure, compare, and contrast physical properties of matter, including mass, volume, states, temperature, magnetism, and the ability to sink or float. Assessment</p> <p>Week 7-9 Investigating Mixtures Compare and contrast a variety of mixtures including solutions. Assessment</p> <p>2nd Nine Weeks</p> <p>Week 1-3 Investigating Energy Differentiate among forms of energy to include mechanical, sound, electrical, light, and thermal. Assessment</p> <p>Week 4-6 Investigating Force and Motion Design a descriptive investigation to explore the effect of force on an object such as a push, pull, gravity, friction, or magnetism. Assessment</p> <p>Week 7-9 Investigating Natural Resources Examine properties of soil. Identify and classify Earth's renewable resources. Assessment</p>
---	---



Science Syllabus

<p>Syllabus 2nd Semester</p>	<p>3rd Nine Weeks</p> <p>Week 1-3 Investigating the Changing Earth Observe and identify slow changes to Earth's surface caused by weathering, erosion, & deposition from water, wind, & ice. Assessment</p> <p>Week 4-6 Investigating Weather and the Water Cycle Measure and record changes in weather and make predictions using weather maps, weather symbols, and a map key. 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. Assessment</p> <p>Week 7-9 Investigating Patterns of the Earth Collect and analyze data to identify sequences and predict patterns of change in shadows, tides, seasons, and the observable appearance of the Moon over time. Assessment</p> <p>4th Nine Weeks</p> <p>Week 1-3 Investigating Energy Flow in Living Systems Investigate that most producers need sunlight, water, and carbon dioxide to make their own food, while consumers are dependent on other organisms for food. Describe the flow of energy through food webs, beginning with the Sun, and predict how changes in the ecosystem affect the food web such as a fire in a forest. Assessment</p> <p>Week 4-6 Investigating Structure and Behaviors of Organisms Explore how adaptations enable organisms to survive in their environment such as comparing birds' beaks and</p>
---	---



Science Syllabus

	<p>leaves on plants. Assessment</p> <p>Week 7-9 Investigating Life Cycles Explore, illustrate, and compare life cycles in living organisms such as butterflies, beetles, radishes, or lima beans. Assessment</p>
--	--

