

# Science Syllabus

Year	2019-2020
Required Resources	<b><u>Textbook: Fusion</u></b>  <a href="#">Clever: A launch pad for Think Central and Discovery Education</a> <a href="#">MackinVia: A launch pad for Tumblebooks, Kids InfoBits, and National Geographic for Kids.</a> <a href="#">Khan Academy</a>
Process Skills	Conduct classroom and outdoor investigations Use scientific practices during laboratory and outdoor investigations Use critical thinking and scientific problem solving to make informed decisions Use a variety of tools, materials, equipment, and models to conduct science inquiry



# Science Syllabus

Syllabus

1<sup>st</sup> Semester

**1<sup>st</sup> Nine Weeks**

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

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

Week 7-9

Investigating Mixtures

Compare and contrast a variety of mixtures including solutions.

Assessment

**2<sup>nd</sup> Nine Weeks**

Week 1-3

Investigating Energy

Differentiate among forms of energy to include mechanical, sound, electrical, light, and thermal.

Assessment

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

Week 7-9

Investigating Natural Resources

Examine properties of soil. Identify and classify Earth's renewable resources.

Assessment



# Science Syllabus

Syllabus  
2<sup>nd</sup> Semester

## 3<sup>rd</sup> Nine Weeks

### 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

### 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

### 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

## 4<sup>th</sup> Nine Weeks

### 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

### 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



# Science Syllabus

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

