## Curriculum – Grade 6 Science

<table>
<thead>
<tr>
<th>What your child will learn</th>
<th>Water and the Atmosphere</th>
<th>Earth’s Structure</th>
<th>Introduction to Chemistry</th>
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</thead>
<tbody>
<tr>
<td><strong>What your child will learn</strong></td>
<td>• The many facets of the water cycle including both fresh water and salt water (including but not limited to surface water, ground water, wetlands, etc.)&lt;br&gt;• Characteristics of Earth’s oceans including but not limited to waves, currents, climate, habitats, etc.&lt;br&gt;• The Atmosphere: Air, air pressure, layers of the atmosphere, energy/heat within the atmosphere, winds&lt;br&gt;• Weather: Identification of clouds, precipitation, air masses, storms, and prediction of the weather.&lt;br&gt;• How climate changes naturally over time and how human factors influence global climate changes.</td>
<td>• The main parts/features of Earth’s systems and interior and the forces that change Earth.&lt;br&gt;• Properties of rocks and minerals as well as the rock cycle&lt;br&gt;• Causes and effects of Plate Tectonics, earthquakes&lt;br&gt;• The where, what, how, and why of volcanoes and earthquakes</td>
<td>• Describe, classify, and measure the 3 common states of matter and how those states change&lt;br&gt;• Give examples of how matter behaves in different states and identify properties of matter in each state.&lt;br&gt;• Make connections and identify between chemical and physical changes of matter.&lt;br&gt;• Tell how the Periodic Table organizes elements and give examples of information that can be obtained from the Periodic Table&lt;br&gt;• List the basic parts of an atom&lt;br&gt;• Give the differences between mixtures, elements and compounds&lt;br&gt;• Differentiate between acids and bases and identify items on the pH scale.</td>
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<td><strong>What your child will do</strong></td>
<td>• Explore wetland and ocean habitats.&lt;br&gt;• Identify and describe features of the ocean.</td>
<td>• Identify features of Earth&lt;br&gt;• Classify and/or identify rocks and minerals according to properties&lt;br&gt;• Describe volcanoes according to</td>
<td>• Depict the parts of an atom.&lt;br&gt;• Give examples the properties of matter and of chemical and physical changes of matter.</td>
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<td>What you'll see (products)</td>
<td>How you can help</td>
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| • Lab Sheets/Investigations  
• Graphs, charts and data tables  
• Graphic organizers  
• Projects  | • Discuss daily weather and climate with your child.  
• Encourage your child to read literature and scientific current events.  
• Take your child to an aquarium and ocean and discuss the features of ocean climates, habitats  
• Monitor your child’s homework and grades online  | • Identify earth’s features in daily life and in literature or in movies.  
• Discuss examples of earth’s systems  
• Encourage your child to read about earthquakes, volcanoes, and scientific current events.  
• Monitor your child’s homework and grades online  
• Encourage your child to study each evening and reread textbook.  | • Record examples of chemical and physical changes that occur in daily life  
• Talk about acids and bases that as they are relevant to life  
• Encourage your child to read scientific literature and current events  
• Talk about mass, volume and weight  
• Take your child to museums and watch educational science television with your child.  
• List items in everyday life that are acidic/basic  
• Point out how different elements are used in everyday products  
• Monitor homework and your child’s grades online  |
• Encourage your child to study each evening and reread textbook