

BCPS Middle School Science Curriculum Design - Unit Titles and Culminating Events

Grade 6	<p>Unit 1: Ecosystem Interactions Students develop an action plan to support a native wildlife species.</p>	<p>Unit 2: Matter and Its Properties Students create a synthetic material that will meet a societal need.</p>	<p>Unit 3: Forces and Motion Students design and test a safety helmet for a selected sport or activity.</p>	<p>Unit 5: Space Systems Students investigate the probability of finding another planet capable of sustaining life.</p>	<p>Unit 6: Earth Systems Students develop a scientific report that details the probability of a major volcanic or earthquake event in Maryland.</p>	
Grade 7	<p>Unit 1: S'more Energy Students design and engineer a device to make s'mores.</p>	<p>Unit 2: Form Follows Function Students design and engineer an organ system that demonstrates the interaction of those organs.</p>	<p>Unit 3: The Chemistry Within Us Students construct an argument relating to the impact of artificial sweeteners on the human body.</p>	<p>Unit 4: Survive and Thrive Students create an information sheet that highlights behaviors and structures of plants and animals found in a Maryland marsh.</p>	<p>Unit 5: Awaken the Force Students construct and improve the performance of a simple motor. Also, students construct a Skee-ball ramp to hit targets.</p>	<p>Unit 6: Let Us Entertain You Students design a music performance that includes the use of light and sound with a digitized element.</p>
Grade 8	<p>Unit 1: Climate Detectives Students create a public service announcement to address misconceptions regarding climate change.</p>	<p>Unit 2: Mastodons and Megalodons Students create a digital fossil museum to demonstrate how life on Earth has changed throughout history.</p>	<p>Unit 3: Designer Dogs Students will use knowledge of genetics, inheritance, and genetic technology in order to create a breeding plan that will most likely yield a dog to perform a specific purpose.</p>	<p>Unit 4: Overstepping Our Resources Students will develop an action plan that will protect and sustain one specific local natural resource for future generations.</p>		