

**Diocese of Allentown  
Grade 8 Science  
Overview**

<b>Unit 1</b>	<b>Unit 2</b>	<b>Unit 3</b>
<b>Enduring Knowledge 1:</b> <i>Use the Scientific Method, processing skills, equipment, and lab safety to solve problems.</i>	<b>Enduring Knowledge 6:</b> <i>Factors affect chemical reactions.</i>	<b>Enduring Knowledge 11:</b> <i>Earth's forces cause geological events.</i>
<b>Enduring Knowledge 2:</b> <i>Everything is matter except energy. Elements consist of atoms with specific nuclear properties.</i>	<b>Enduring Knowledge 7:</b> <i>Nuclear reactions can generate energy.</i>	<b>Enduring Knowledge 12:</b> <i>There is a continuous changing of the Earth's surface.</i>
<b>Enduring Knowledge 3:</b> <i>Atoms contain valence electrons that are involved in forming bonds with other atoms.</i>	<b>Enduring Knowledge 8:</b> <i>Chemical imbalances are generated in Earth's environment.</i>	<b>Enduring Knowledge 13:</b> <i>The Sun is the primary source of Earth's energy.</i>
<b>Enduring Knowledge 4:</b> <i>Matter can be combined and separated.</i>	<b>Enduring Knowledge 9:</b> <i>Earth is mainly covered in oceans which affect the lithosphere.</i>	<b>Enduring Knowledge 14:</b> <i>Stars can differ in type and cycle.</i>
<b>Enduring Knowledge 5:</b> <i>States of matter are based on kinetic theory.</i>	<b>Enduring Knowledge 10:</b> <i>Fresh water makes up a small amount of Earth's surface.</i>	<b>Enduring Knowledge 15:</b> <i>Earth is one part of a dynamic universe which includes the solar system and galaxies.</i>