

## Standards Pacing By Quarter

Quarter 1	Quarter 2	Quarter 3	Quarter 4
Chemistry, (7 weeks, Aug 26-Oct 11)	Chemistry (cont), Forms of Energy (9 weeks)	Cells and Body Functions (8 weeks)	Plate Tectonics (8 weeks)
<p><u>CCCs and SEPs of NGSS</u> <u>HMH Science Dimensions Module J</u> 6-8.PS1.A.1 (MS-PS1-1)***</p> <p>Develop models to describe the atomic composition of simple molecules and extended structures.</p> <p><b>6-8.PS1.A.2 (MS-PS1-2)**</b> Analyze and interpret data on the properties of substances before and after the substances interact to determine if a chemical reaction has occurred.</p> <p><b>6-8.PS1.A.4 (MS-PS1-4)***</b> Develop a model that predicts and describes changes in particle motion, temperature, and state of a pure substance when thermal energy is added or removed.</p>	<p><u>HMH Science Dimensions Module J and I</u></p> <p><b>6-8.PS1.B.1 (MS-PS1-5)**</b> Develop and use a model to describe how the total number of atoms does not change in a chemical reaction and thus mass is conserved.</p> <p><b>6-8.PS1.B.2 (MS-PS1-6)*</b> Undertake a design project to construct, test, and modify a device that either releases or absorbs thermal energy by chemical processes.</p> <p><b>6-8.PS1.A.3 (MS-PS1-3)*</b> Gather and make sense of information to describe that synthetic materials come from natural resources and impact society.</p> <p><b>6-8.PS3.A.1 (MS-PS3-1)**</b> Construct and interpret graphical displays of data to describe the relationships of kinetic energy to the mass of an object and to the speed of an object.</p> <p><b>6-8.PS3.A.2 (MS-PS3-2)**</b> Develop a model to describe that when the arrangement of objects interacting at a distance changes, different amounts of potential energy are stored in the system.</p>	<p><u>HMH Science Dimensions Module B</u></p> <p><b>6-8.LS1.A.1 (MS-LS1-1)***</b> Conduct an investigation to provide evidence that living things are made of cells; either one cell or many different numbers and types of cells.</p> <p><b>6-8.LS1.A.2 (MS-LS1-2)**</b> Develop and use a model to describe the function of a cell as a whole and ways parts of cells contribute to the function.</p> <p><b>6-8.LS1.A.3 (MS-LS1-3)***</b> Use argument supported by evidence for how the body is a system of interacting subsystems composed of groups of cells.</p> <p><b>6-8.LS1.B.2 (MS-LS1-5)**</b> Construct a scientific explanation based on evidence for how environmental and genetic factors influence the growth of organisms.</p>	<p><u>HMH Science Dimensions Module F</u></p> <p><b>6-8.ESS1.C.1 (MS-ESS1-4)*</b> Construct a scientific explanation based on evidence from rock strata for how the geologic time scale is used to organize Earth's 4.6-billion-year-old history.</p> <p><b>6-8.ESS2.A.1 (MS-ESS2-1)**</b> Develop a model to describe the cycling of Earth's materials and the flow of energy that drives this process.</p> <p><b>6-8.ESS2.A.2 (MS-ESS2-2)**</b> Construct an explanation based on evidence for how geoscience processes have changed Earth's surface at varying time and spatial scales.</p> <p><b>6-8.ESS2.B.1 (MS-ESS2-3)*</b> Analyze and interpret data on the distribution of fossils and rocks, continental shapes, and seafloor structures to provide evidence of the past plate motions.</p>