

Standards Pacing By Quarter

| Quarter 1 | Quarter 2 | Quarter 3 | Quarter 4 |
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| Three-Dimensional Learning, Energy Transfer and Waves | Energy Transfer (cont); Evolution - Ancestry | Evolution – Natural Selection; Earth’s Systems | MAP Review Genetics |
| <p><u>(HMH Module L) Waves</u></p> <p>6-8.PS4.A.1 (MS-PS4-1)** Use mathematical representations to describe a simple model for waves that includes how the amplitude of a wave is related to the energy in a wave.</p> <p>6-8.PS4.A.2 (MS-PS4-2)*** Develop and use a model to describe that waves are reflected, absorbed, or transmitted through various materials.</p> <p><u>Storyline Energy Transfer</u></p> <p>6-8.PS3.A.3 (MS-PS3-3)** Apply scientific principles to design, construct, and test a device that either minimizes or maximizes thermal energy transfer</p> <p>6-8.PS3.A.4 (MS-PS3-4)*** Plan an investigation to determine the relationships among the energy transferred, the type of matter, the mass, and the change in the average kinetic energy of the particles as measured by the temperature of the sample</p> <p>6-8.PS3.B.1 (MS-PS3-5)* Construct, use, and present arguments to support the claim that when the kinetic energy of an object changes, energy is transferred to or from the object</p> <p>(Review) 6-8.PS1.A.4 (MS-PS1-4)*** (priority standard in 7th grade science) Develop a model that describes the changes in particle motion, temperature, and state of a pure substance when thermal energy is added or removed.</p> | <p><u>Storyline Energy Transfer, continued</u> ALL Quarter 1 standards, except 6-8.PS4.A.1 (MS-PS4-1)**</p> <p>6-8.ETS1.B.3 (MS-ETS1-4)* Develop a model to generate data for iterative testing and modification of a proposed object tool, or process such that an optimal design can be achieved.</p> <p><u>(HMH Module D, partial) Evolution</u></p> <p>6-8.ESS2.B.1 (MS-ESS2-3)** 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> <p>6-8.LS4.A.1 (MS-LS4-1)** Analyze and interpret data for patterns in the fossil record that document the existence, diversity, extinction, and change of life forms throughout the history of life on Earth under the assumption that natural laws operate today as in the past</p> <p>6-8.LS4.A.1 (MS-LS4-2)** Apply scientific ideas to construct an explanation for the anatomical similarities and differences among modern organisms and fossils organisms to infer evolutionary relationships.</p> | <p><u>(HMH Module D, partial) Evolution</u> 6-8.LS4.B.1 (MS-LS4-4)*** Construct an explanation based on evidence that describes how genetic variations of traits in a population increase some individuals’ probability of surviving and reproducing in a specific environment.</p> <p>6-8.LS4.B.2 (MS-LS4-5)* Gather and synthesize information about technologies that have changed the way humans influence the inheritance of desired traits in organisms</p> <p>6-8.LS4.C.1 (MS-LS4-6)** Use mathematical representations to support explanations of how natural selection may lead to increases and decreases of specific traits in populations over time.</p> <p><u>(HMH Module H) Planetary Systems</u></p> <p>6-8.ESS1.A.1 (partial MS-ESS1-1)** Develop and use a model of the Earth-sun-moon system to explain the cyclic patterns of lunar phases and eclipses of the sun and moon.</p> <p>6-8.ESS1.A.2 (partial MS-ESS1-1)*** Develop and use a model of the Earth-sun system to explain the cyclical pattern of seasons, which includes the Earth's tilt and directional angle of sunlight on different areas of Earth across the year.</p> | <p><u>(HMH Module H) Planetary Systems, continued</u> 6-8.ESS1.A.3 (MS-ESS1-2)** Develop and use a model to describe the role of gravity in the motions within galaxies and the solar system.</p> <p>6-8.ESS1.B1 (MS-ESS1-3)*** Analyze and interpret data to determine scale properties of objects in the solar system.</p> <p><u>Earth & Space Science MAP Review</u> <u>Physical Science MAP Review</u> <u>Life Science MAP Review</u></p> <p><u>MAP TEST</u></p> <p>MS-LS3 (left at teacher’s discretion)</p> |