

**Pacing Guide 2018-19  
Science**

Pacing	Strand, Standard, Performance Objective	Student Target Outcomes and Goals: "I can ....."	Disciplinary Core Idea with SEPs	Crosscutting Concepts	Interactive Science Resources and Activities	Formative Assessments  Summative Assessments
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<b>Week 1</b>  <b>Dates</b> <b>August</b> <b>6-10</b>	L.4.1.1  L.4.1.2  L.4.1.3	I can demonstrate an understanding of the organization, functions, and interconnections of the major human body systems.	Hierarchical Organization  *Organs *Organ Systems	Structure and Function	Interactive Notebook (Vocabulary)  <u><a href="#">Introduction: Organisms – Structures and Processess</a></u>  Organ Chart  Diagram of the human body  Study Jams	<u><a href="#">Introduction: Organisms – Structures and Processess</a></u>  Google Classroom Quiz
<b>Week 2</b>  <b>Dates</b> <b>August</b> <b>13-17</b>	L.4.1.1  L.4.1.2  L.4.1.3	I can demonstrate an understanding of the organization, functions, and interconnections of the major human body systems.	Hierarchical Organization  *How do organs and organ systems work together?	Structure and Function  Cause and Effect	Interactive Notebook (Vocabulary)  All Systems Go! <u><a href="http://sciencelinks.com/lessons/systems-of-the-human-">http://sciencelinks.com/lessons/systems-of-the-human-</a></u>	Google Classroom Quiz

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					<a href="#">body/</a> Study Jams	
<b>Week 3</b> <b>Dates</b> <b>August</b> <b>20-24</b>	L.4.1.4  L.4.1.5	I can demonstrate an understanding of the organization, functions, and interconnections of the major human body systems.	Hierarchical Organization  *How does noninfectious diseases (diabetes, heart disease) and infectious diseases (cold, flu) serve to disrupt the function of the body system?  *Healthy body and lifestyles	Systems and System Models  Structure and Function  Patterns	Interactive Notebook (Vocabulary)  Infectious Diseases <a href="http://infectiousdiseases.edc.org/content/module/1/activity/1?view=teacher">http://infectiousdiseases.edc.org/content/module/1/activity/1?view=teacher</a>	
<b>Week 4</b> <b>Dates</b> <b>August</b> <b>27-31</b>	L.4.2.1  L.4.2.2	I can demonstrate an understanding of life cycles, including familiar plants and animals (e.g., reptiles,	Reproduction and Heredity  *Life cycles of plants and animals.	Patterns  Energy and Matter: Flows, Cycles, and Conservation	Interactive Notebook (Vocabulary)  <a href="#">Animal and Plant Life Cycles</a>	

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		amphibians, or birds).	-Life cycle and parts of a Flower -Life cycle of a bullfrog - Life cycle of butterflies **Will compare plant, frog, and butterfly life cycles		<a href="#">Life Cycles</a>  Study Jams	
<b>Week 5</b>  <b>Dates</b> <b>Sept.</b> <b>3-7</b>			<div style="border: 1px solid black; padding: 10px; display: inline-block;"> <h2 style="margin: 0;">4 1/2 Weeks Test</h2> </div>			
<b>Week 6</b>  <b>Dates</b> <b>Sept. 10-14</b>	E.4.9A.1	I can demonstrate an understanding of how the water cycle is propelled by the sun's energy.	Earth's Systems and Cycles  *Water Cycle	Energy and Matter: Flows, Cycles, and Conservation	Interactive Notebook (Vocabulary)  Water Cycle <a href="http://studyjams.scholastic.com/studyjams/jams/science/ecosystems/water-cycle.htm">http://studyjams.scholastic.com/studyjams/jams/science/ecosystems/water-cycle.htm</a>	

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<b>Week 7</b>  <b>Dates</b> <b>Sept. 17-21</b>	E.4.9B.1  E.4.9B.2	I can demonstrate an understanding of weather and climate patterns.	Earth's Systems and Cycles  *Cloud Types  *Changes in weather	Patterns	Interactive Notebook (Vocabulary)  Clouds <a href="http://studyjams.scholastic.com/studyjams/science/weather-and-climate/clouds-and-precipitation.htm">http://studyjams.scholastic.com/studyjams/science/weather-and-climate/clouds-and-precipitation.htm</a>  Weather and Climate <a href="http://studyjams.scholastic.com/studyjams/science/weather-and-climate/weather-and-">http://studyjams.scholastic.com/studyjams/science/weather-and-climate/weathe</a>	

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					<a href="#">climate.htm</a>	
<b>Week 8</b> <b>Dates</b> <b>Sept. 24-28</b>	E.4.9B.3	I can demonstrate an understanding of weather and climate patterns.	Earth's Systems and Cycles  SEP  *Designing Weather Instruments	Structure and Function  Patterns	Interactive Notebook (Vocabulary)  Definitions <a href="http://www.atherwizkids.com/?page_id=82">http://www.atherwizkids.com/?page_id=82</a>  Weather Instruments Activities <a href="http://www.atherwizkids.com/?page_id=82">http://www.atherwizkids.com/?page_id=82</a>	
<b>Week 9</b> <b>Dates</b> <b>Oct. 1-5</b>			<b>1<sup>st</sup> 9 Weeks Test</b>			

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<b>Week 10</b>  <b>Dates</b> <b>Oct. 8-12</b>	E.4.9C.1  E.4.9C.2  E.4.9C.3	I can demonstrate an understanding of how natural processes and human activities affect the feature of Earth's landforms and oceans.	Earth's Systems and Cycles  *Natural processes that affect Earth's surfaces	Cause and Effect: Mechanism and Explanation	Interactive Notebook (Vocabulary)  <a href="#">Natural Processes Resources</a>	
<b>Week 11</b>  <b>Dates</b> <b>Oct. 15-19</b>	E.4.9C.4	I can demonstrate an understanding of how natural processes and human activities affect the features of Earth's landforms and oceans.	Earth's Systems and Cycles  *Atmosphere, geosphere, hydrosphere, and biosphere	Cause and Effect: Mechanism and Explanation	Interactive Notebook (Vocabulary)  Video <a href="http://www.geography4kids.com/files/land_intro.html">http://www.geography4kids.com/files/land_intro.html</a>  Biosphere and Math integration  <a href="https://www.teacherspayteachers.com/Product/Biosphere-5th-Grade-Multiply-">https://www.teacherspayteachers.com/Product/Biosphere-5th-Grade-Multiply-</a>	

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					<a href="#">Fractions-by-Whole-Numbers-Math-Worksheets-3522043</a>  <a href="http://studyjams.scholastic.com/studyjams/jams/science/rocks-minerals-landforms/lithosphere-hydrosphere-atmosphere.htm">http://studyjams.scholastic.com/studyjams/jams/science/rocks-minerals-landforms/lithosphere-hydrosphere-atmosphere.htm</a>	
<b>Week 12</b>  <b>Oct. 22-26</b>	E.4.9C.5	I can demonstrate an understanding of how natural processes and human activities affect the features of Earth's landforms and oceans.	Earth's Systems and Cycles  *Thunderstorms, hurricanes, and tornadoes	Cause and Effect: Mechanism and Explanation  Patterns	Interactive Notebook (Vocabulary)  Weather <a href="http://studyjams.scholastic.com/studyjams/jams/science/weather-and-climate/severe-storms.htm">http://studyjams.scholastic.com/studyjams/jams/science/weather-and-climate/severe-storms.htm</a>	

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<b>Week 13</b>  <b>Dates</b> <b>Oct. 31-</b> <b>Nov. 2</b>	E.4.10.1  E.4.10.2	I can demonstrate an understanding of the various sources of energy used for human needs along with their effectiveness and possible impacts.	Earth's Resources  *Renewable Resources	Cause and Effect: Mechanism and Explanation	Interactive Notebook (Vocabulary)  Renewable Resource Activity <a href="https://www.plt.org/family-activity/renewable-or-not/">https://www.plt.org/family-activity/renewable-or-not/</a>	
<b>Week 14</b>  <b>Dates</b> <b>Nov. 5-9</b>	P.4.6A.1  P.4.6A.2  P.4.6A.3  P.4.6A.4	I can demonstrate an understanding of the common source and uses of heat and electric energy and the materials used to transfer heat and electricity.	Motions, Forces, and Energy  *Heat Energy *Electrical Energy	Cause and Effect: Mechanism and Explanation	Interactive Notebook (Vocabulary)  Heat Energy <a href="http://studyjams.scholastic.com/studyjams/jams/science/energy-light-sound/heat.htm">http://studyjams.scholastic.com/studyjams/jams/science/energy-light-sound/heat.htm</a>	



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					Heat Energy Activity <a href="http://www.cpalms.org/Public/PreviewResourceLesson/Preview/46516">http://www.cpalms.org/Public/PreviewResourceLesson/Preview/46516</a>	
<b>Week 15</b>  Dates Nov. 12-16			<b>4 ½ Weeks Test</b>			
<b>Week 16</b>  Dates Nov. 19-23			<b>Thanksgiving Break</b>			
<b>Week 17</b>  Dates Nov. 26-30	P.4.6A.1  P.4.6A.2  P.4.6A.3  P.4.6A.4	I can demonstrate an understanding of the common source and uses of heat and electric energy and the materials used to transfer heat and	Motions, Forces, and Energy  *Heat Energy *Electrical Energy	Energy and Matter: Flows, Cycles, and Conservation	Interactive Notebook (Vocabulary)  Electrical Energy <a href="http://studyjams.scholastic.com/studyjams/ja">http://studyjams.scholastic.com/studyjams/ja</a>	

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		electricity.			<a href="http://ms/science/energy-light-sound/electricity.htm">ms/science/energy-light-sound/electricity.htm</a>  <a href="http://mrswarnearlington.weebly.com/unit-2-heat--electricity.html">http://mrswarnearlington.weebly.com/unit-2-heat--electricity.html</a>	
Week 18	P.4.6A.5	I can demonstrate an understanding of the common source and uses of heat and electric energy and the materials used to transfer heat and electricity.	Motions, Forces, and Energy  *Historical Figures in Electricity  Alessandro Volta, Michael Faraday, Nicola Tesla, Thomas Edison	Systems and system models	Interactive Notebook (vocabulary)  Inventors <a href="http://www.alliantenergykids.com/energybasics/energyinventors/">http://www.alliantenergykids.com/energybasics/energyinventors/</a>  Project -Assign each student or group a historical figure to research	

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<b>Week 19</b>  <b>Dates</b> <b>Dec. 10-14</b>	P.4.6A.6	I can demonstrate an understanding of the common source and uses of heat and electric energy and the materials used to transfer heat and electricity.	Motions, Forces, and Energy  SEP  *Design a device that converts any form of energy from one form to another form	Structure and Function	Interactive Notebook (vocabulary)  <a href="#">Moving Pennies</a>  <a href="#">Golf Ball/Ping Pong Ball</a>	
<b>Week 20</b>  <b>Dates</b> <b>Dec. 17-21</b>			<div style="border: 1px solid black; padding: 10px; font-size: 2em;">2<sup>nd</sup> 9 Weeks Test</div>			
<b>Week 21</b>  <b>Dates</b> <b>Dec. 24-28</b>			<div style="border: 1px solid black; padding: 10px; font-size: 2em;">Christmas Break</div>			
<b>Week 22</b>  <b>Dates</b> <b>Dec. 31-Jan. 4</b>			<div style="border: 1px solid black; padding: 10px; font-size: 2em;">Christmas Break</div>			

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<b>Week 23</b>  <b>Dates</b> <b>Jan. 7-11</b>	P.4.6B.1	I can demonstrate an understanding of the properties of light as forms of energy.	Motions, Forces, and Energy  *Sir Isaac Newton and white light	Energy and Matter: Flows, Cycles, and Conservation	Interactive Notebook (vocabulary)  Light <a href="http://studyjams.scholastic.com/studyjams/jams/science/energy-light-sound/light.htm">http://studyjams.scholastic.com/studyjams/jams/science/energy-light-sound/light.htm</a>  <a href="#">Light Activity</a>  Sir Isaac Newton <a href="https://www.ducksters.com/biography/scientists/isaac_newton.php">https://www.ducksters.com/biography/scientists/isaac_newton.php</a>	
<b>Week 24</b>  <b>Dates</b> <b>Jan.14-18</b>	P.4.6B.2	I can demonstrate an understanding of the properties of light as forms of energy.	Motions, Forces, and Energy  *Visibility related to light	Energy and Matter: Flows, Cycles, and Conservation	Interactive Notebook (vocabulary)  Light <a href="http://studyjams.scholastic.com/studyjams/ja">http://studyjams.scholastic.com/studyjams/ja</a>	

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					<a href="https://www.ck12.org/energy-light-sound/light/">ms/science/energy-light-sound/light.htm</a>  <a href="#">Light Activity</a>	
<b>Week 25</b>  <b>Dates</b> <b>Jan. 22-25</b>	P.4.6B.3	I can demonstrate an understanding of the properties of light as forms of energy.	Motions, Forces, and Energy  *Reflection, refraction, and absorption	Energy and Matter: Flows, Cycles, and Conservation	Interactive Notebook (vocabulary)  Reflection, refraction, and absorption <a href="http://studyjams.scholastic.com/studyjams/jams/science/energy-light-sound/light-absorb-reflect-refract.htm">http://studyjams.scholastic.com/studyjams/jams/science/energy-light-sound/light-absorb-reflect-refract.htm</a>	
<b>Week 26</b>  <b>Dates</b> <b>Jan. 28 – Feb.1</b>	P.4.6B.4	I can demonstrate an understanding of the properties of light as forms of energy.	Motions, Forces, and Energy  *Transparent, translucent, and opaque	Energy and Matter: Flows, Cycles, and Conservation	Interactive Notebook (vocabulary)  Transparent, translucent, and opaque	

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					worksheet <a href="https://www.gradeschools.org/gk/worksheets/see-through-materials/">https://www.gradeschools.org/gk/worksheets/see-through-materials/</a>	
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<b>Week 27</b>  Dates Feb.4- 8			<b>4 1/2 Weeks Test</b>			
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<b>Week 28</b>  Dates Feb.11-15	P.4.6C.1	I can demonstrate an understanding of the properties of sound as a form of energy.	Motions, Forces, and Energy  *Pitch and volume	Cause and Effect: Mechanism and Explanation	Interactive Notebook (vocabulary)  Sound <a href="https://www.dkfindout.com/us/science/sound/">https://www.dkfindout.com/us/science/sound/</a>  Pitch and volume <a href="http://studyjams.scholastic.com/studyjams/jams/science/energy-light-sound/sound.htm">http://studyjams.scholastic.com/studyjams/jams/science/energy-light-sound/sound.htm</a>	
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					<a href="#">m</a>	
<b>Week 29</b> <b>Dates</b> <b>Feb. 19-</b> <b>22</b>	P.4.6C.2	I can demonstrate an understanding of the properties of sound as a form of energy.	Motions, Forces, and Energy  *Vibration	Cause and Effect: Mechanism and Explanation	Interactive Notebook (vocabulary)  Vibration (videos, activities) <a href="https://mpb.pbslearningmedia.org/resource/phy03.sci.phys.howmove.lp_sound/sound-vibrations/#.WwWNYDQvzIU">https://mpb.pbslearningmedia.org/resource/phy03.sci.phys.howmove.lp_sound/sound-vibrations/#.WwWNYDQvzIU</a>	
<b>Week 30</b> <b>Dates</b> <b>Feb. 25-</b> <b>March 1</b>	P.4.6C.3	I can demonstrate an understanding of the properties of sound as a form of energy.	Motions, Forces, and Energy  *Scientists of Sound Alexander Graham Bell, Robert Boyle, Daniel Bernoulli, and Guglielmo Marconi	Structure and Function	Interactive Notebook (vocabulary)  Project Poster	

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Week 31 Dates March 4-8			3rd 9 Weeks Test			
Week 32 Dates March 11-15			Spring Break			
Week 33 March 18-22			Review			
Week 34 Dates			Review			
Week 35			Review			



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Week 36			Review			
Week 37			Review			
Week 38			Review			
Week 39			Review			
Week 40			Review			

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