

**Pacing Guide 4th Grade
2019-20 Science
1st Nine Weeks**

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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Dates August 6-9	L.4.1.1	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>Introduction: Organisms – Structures and Processess</u> Organ Chart Diagram of the human body Study Jams	<u>Introduction: Organisms – Structures and Processess</u> Google Classroom Quiz
	L.4.1.2					
	L.4.1.3					
Dates August 12-16	L.4.1.1	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>http://sciencelinks.com/lessons/systems-of-the-human-</u>	Google Classroom Quiz
	L.4.1.2					
	L.4.1.3					

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					body/ Study Jams	
Dates August 19-23	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 http://infectiousdiseases.edc.org/content/module/1/activity/1?view=teacher	
Dates August 26-30	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) Animal and Plant Life Cycles	

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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		Life Cycles Study Jams	
Dates Sept. 3-6			<div style="border: 1px solid black; padding: 10px; display: inline-block;"> <h2>4 1/2 Weeks Test</h2> </div>			
Dates Sept. 9-13	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 http://studyjams.scholastic.com/studyjams/jams/science/ecosystems/water-cycle.htm	

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Dates Sept. 16-20	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 http://studyjams.scholastic.com/studyjams/science/weather-and-climate/clouds-and-precipitation.htm Weather and Climate http://studyjams.scholastic.com/studyjams/science/weather-and-climate/weathe	

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					climate.htm	
Dates Sept. 23- Oct. 1	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 http://www.atherwizkids.com/?page_id=82 Weather Instruments Activities http://www.atherwizkids.com/?page_id=82	
Dates Oct. 2-8			1 st 9 Weeks Test			

Pacing Guide 2019-20
Science-2nd Nine Weeks

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
Dates Oct. 9-11	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) Natural Processes Resources	
Dates Oct. 14-18-	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 http://www.geography4kids.com/files/land_intro.html Biosphere and Math integration https://www.teacherspayteachers.com/Product/Biosphere-5th-Grade-Multiply-	

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					Fractions-by-Whole-Numbers-Math-Worksheets-3522043 http://studyjams.scholastic.com/studyjams/jams/science/rocks-minerals-landforms/lithosphere-hydrosphere-atmosphere.htm	
Oct. 21-25	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 http://studyjams.scholastic.com/studyjams/jams/science/weather-and-climate/severe-storms.htm	

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Dates Oct. 30- Nov. 1	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 https://www.plt.org/family-activity/renewable-or-not/	
Dates Nov. 4-8	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 http://studyjams.scholastic.com/studyjams/jams/science/energy-light-sound/heat.htm	

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					Heat Energy Activity http://www.cpalms.org/Public/PreviewResourceLesson/Preview/46516	
Dates Nov. 11-15			4 1/2 Weeks Test			
Dates Nov. 18-22	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 http://studyjams.scholastic.com/studyjams/ja	

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		electricity.			ms/science/energy-light-sound/electricity.htm http://mrswarnearlington.weebly.com/unit-2-heat--electricity.html	
Dec. 2-6	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 http://www.alliantenergykids.com/energybasics/energyinventors/ Project -Assign each student or group a historical figure to research	

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Dates Dec. 9-13	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) Moving Pennies Golf Ball/Ping Pong Ball	
Dates Dec. 16-20			2nd 9 Weeks Test			
Dates Dec. 23-27			Christmas Break			
Dates Dec. 30-Jan. 3			Christmas Break			

Pacing Guide 2019-20
Science- 3rd Nine Weeks

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
Dates Jan. 7-10	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 http://studyjams.scholastic.com/studyjams/jams/science/energy-light-sound/light.htm Light Activity Sir Isaac Newton https://www.ducksters.com/biography/scientists/isaac_newton.php	
Dates Jan.13-17	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 http://studyjams.scholastic.com/studyjams/ja	

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					ms/science/energy-light-sound/light.htm Light Activity	
Dates Jan. 21-24	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 http://studyjams.scholastic.com/studyjams/jams/science/energy-light-sound/light-absorb-reflect-refract.htm	
Dates Jan. 27-31	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 https://www.greatschools.org/gk/worksheets/see-through-materials/	
Dates Feb. 3-7			4 1/2 Weeks Test			
Dates Feb.10-14	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 https://www.dkfindout.com/us/science/sound/ Pitch and volume http://studyjams.scholastic.com/studyjams/jams/science/energy-light-sound/sound.ht	

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Dates Feb. 17-21	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) https://mpb.pbslearningmedia.org/resource/phy03.sci.phys.howmove.lp_sound/sound-vibrations/#.WwWNYDQvzIU	
Dates Feb. 24-Mar. 3	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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Dates March 4-6			3rd 9 Weeks Test			
Dates March 9-13			Spring Break			
Dates March 16-22			Review			
Dates March 23-27			Review			
Dates March 30- April 3			Review			

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Dates April 6-9			Review			
Dates April 14-17			Review			
Dates April 20-24			Review			
Dates April 27- May 1			Review			
Dates May 4- May 22			Review			

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