

**Pacing Guide 2019-20
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	Materials List:	Formative Assessments Summative Assessments
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Week 1 Dates Aug. 6 – Aug. 9	L.7.3.1	I can analyze diagrams to provide evidence of the importance of the cycling of water, oxygen, carbon, and nitrogen.		Patterns	Powerpoints, Task cards, Video animations, brain pop, lab Foldables, reading essentials	Teacherspayteachers.com Ch. 1 textbook resources	
Week 2 Dates Aug. 12 – Aug. 16	L.7.3.1	I can analyze diagrams to provide evidence of the importance of the cycling of water, oxygen, carbon, and nitrogen.		Patterns	Powerpoints, task cards, video animations, brain pop, lab Foldables, reading essentials	Teacherspayteachers.com Ch. 1 textbook resources	
Week 3 Dates Aug. 19 – 23	L.7.3.1	. I can analyze diagrams to provide evidence of the importance of the cycling of water, oxygen, carbon, and nitrogen.		Patterns	Powerpoints, task cards, video animations, brain pop, lab Foldables, reading essentials	Teacherspayteachers.com Ch. 1 textbook resources	

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Week 4 Dates Aug. 26 – 30	L.7.3.4 L.7.3.5	I can explain how disruptions in cycles affect biodiversity and ecosystem services. I can design a solution for sustaining the health of ecosystems	<u>Ask questions and define problems</u> <u>Design solutions</u>	Energy and matter: flows, cycles, and conservation	Powerpoints, video animations, brain pop, lab, reading essentials	Teachersp ayteacher s.com Ch. 4 textbook resources	4.5 test on Sept. 6
Week 5 Dates Sept. 2 – 6 Sept. 6 4.5 Week Test	L.7.3.4 L.7.3.5	I can explain how disruptions in cycles affect biodiversity and ecosystem services. I can design a solution for sustaining the health of ecosystems	<u>Ask questions and define problems</u> <u>Design solutions</u>	Energy and matter: flows, cycles, and conservation	Powerpoints, video animations, brain pop, lab, reading essentials	Teachersp ayteacher s.com Ch. 4 textbook resources	
Week 6 Dates Sept. 9 – 13	L.7.3.2	I can explain how the processes of photosynthesis, and cellular respiration work together to meet the needs of plants and animals.		Structure and function	Powerpoints, video animations, brain pop, using chart paper students will explain photosynthesis and cellular respiration and	Teachersp ayteacher s.com Ch. 2 textbook resources Chart paper, markers	

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					present to class		
Week 7 Dates Sept. 16 - 20	L.7.3.2	. I can explain how the processes of photosynthesis, and cellular respiration work together to meet the needs of plants and animals.		Structure and function	Powerpoints, video animations, brain pop, lab, using chart paper students will explain photosynthesis and cellular respiration and present to class as a group	Teacherspayteachers.com Ch. 2 textbook resources Chart paper, marker	
Week 8 Dates Sept. 23 - 30	L.7.3.3	. I can describe how food molecules are processed through chemical reactions using oxygen	<u>Develop and use models</u>	Structure and function Systems and system models	Powerpoints, video animations, brain pop, lab, reading essentials, students will make models of alkane, alkene, and alkyne	Teacherspayteachers.com Ch. 3textbook resources Toothpicks, clay	

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					molecules		
Week 9 Dates Oct. 1 – Oct. 4	Review for 9 weeks test and give 9 weeks test						9 weeks test
End of 1st 9 Weeks							
Week 10 Oct. 7 - 11	P.7.5B.1 P.7.5B.2 P.7.5B.3	I can make predictions about the effect of temperature and pressure on the relative motion of atoms and molecules. I can communicate the relationships between		Cause and effect Patterns	Powerpoints, video animations, brain pop, lab, reading essentials	Teacherspayteachers.com Ch. 5 and Ch. 6 textbook resources	

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		pressure, volume, density, and temperature of a gas. I can ask questions to explain how density of matter is affected by a change in heat and/or pressure					
Week 11 Oct. 14 - 25	P.7.5B.1 P.7.5B.2 P.7.5B.3	I can make predictions about the effect of temperature and pressure on the relative motion of atoms and molecules. I can communicate the relationships between pressure, volume, density, and temperature of a gas. I can ask questions to explain how density of matter is affected by a change in heat		Cause and effect Patterns	Powerpoints, video animations, brain pop, lab, reading essentials	Teacherspayteachers.com Ch. 5 &6 textbook resources	

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		and/or pressure					
Week 12 Oct. 28 – Nov 8	P.7.5C.1 P.7.5C.2	I can develop and use models that explain the structure of an atom. I can use informational text to sequence the major discoveries leading to the current atomic model.		Systems and system models Structure and function	Powerpoints, video animations, brain pop, lab, reading essentials	Teacherspayteachers.com Ch. 7 textbook resources	
Week 13 Nov. 11 - 22 Nov. 13 4.5 Week Test	P.7.5A.1 P.7.5A.2 P.7.5A.3	I can collect and evaluate data to describe substances using physical properties. I can analyze and interpret qualitative data to describe substances using chemical		Scale, proportion, and quantity Stability and change	Powerpoints, video animations, brain pop, lab, reading essentials	Teacherspayteachers.com Ch. 8 textbook resources	4.5 week test Nov. 13

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		properties. I can compare and contrast chemical and physical properties.					
Week 14 Nov. 25 - 29	P.7.5C.3 P.7.5C.4	I can identify and analyze relationships between physical and chemical properties of elements, atoms, molecules, compounds, solutions, and mixtures. I can predict the properties and interactions of elements using the periodic table.			Powerpoints, video animations, brain pop, lab, reading essentials	Teacherspayteachers.com Ch. 9 textbook resources	
Week 15 Dec 2 - 6	P.7.5C.3 P.7.5C.4	I can identify and analyze relationships between physical and chemical properties of elements, atoms,		Stability and change	Powerpoints, video animations, brain pop, lab, reading essentials	Teacherspayteachers.com Ch. 9 textbook resources	

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		molecules, compounds, solutions, and mixtures. I can predict the properties and interactions of elements using the periodic table.					
Week 16 Dec. 9 - 13	P.7.5C.3 P.7.5C.4	I can identify and analyze relationships between physical and chemical properties of elements, atoms, molecules, compounds, solutions, and mixtures. I can predict the properties and interactions of elements using the periodic table. Using the periodic table, make predictions to explain how			Powerpoints, video animations, brain pop, lab, reading essentials	Teacherspayteachers.com	

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		bonds form between groups of elements.					
Week 17 Dec. 16 - 20	Review for 9 weeks test					Teacherspayteachers.com	

End of 2nd 9 Weeks

Week 18 Jan. 6 - 10	P.7.5C.5 P.7.5C.6	I can describe concepts used to construct chemical formulas. Using the periodic table, make predictions to explain how bonds form between groups of elements.		Stability and change Systems and system models	Powerpoints, video animations, brain pop, lab, reading essentials	Teacherspayteachers.com Ch. 10 textbook resources	
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Week 19 Jan. 13-18	P.7.5C.5 P.7.5C.6	. I can describe concepts used to construct chemical formulas. Using the periodic table, make predictions to explain how bonds form between groups of elements.		Stability and change Systems and system models	Powerpoints, video animations, brain pop, lab, reading essentials	Teacherspayteacher s.com Ch. 10 textbook resources	
Week 20 Jan. 20 - 24	P.7.5C.5 P.7.5C.6	I can describe concepts used to construct chemical formulas. Using the periodic table, make predictions to explain how bonds form between groups of elements.		Stability and change Systems and system models	Powerpoints, video animations, brain pop, lab, reading essentials	Teacherspayteacher s.com Ch. 10 textbook resources	1
Week 21 Jan 27 – 31	P.7.5D.1 P.7.5D.2 P.7.5D.3 P.7.5D.4	I can predict outcomes of chemical reactions. I can design and conduct		Stability and change Systems and systems models	Powerpoints, video animations, brain pop, lab, reading essentials	Teacherspayteacher s.com Ch.10 textbook resources	

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<p>Week 23 Feb. 10 - 14</p>	<p>P.7.5D.1 P.7.5D.2 P.7.5D.3 P.7.5D.4</p>	<p>I can predict outcomes of chemical reactions. I can design and conduct investigations to support evidence that chemical reactions have occurred. I can build a model to explain that chemical reactions can store or release energy.</p>		<p>Stability and change Systems and systems models</p>	<p>Powerpoints, video animations, brain pop, lab, reading essentials</p>	<p>Teacherspayteachers.com Ch. textbook resources</p>	
<p>Week 24 Feb. 17 - 21</p>	<p>P.7.5E.1 P.7.5E.2 P.7.5E.3</p>	<p>I can conduct simple scientific investigations to show that total mass is not altered during a chemical reaction in a closed system. I can demonstrate an understanding of the law of conservation of</p>			<p>Powerpoints, video animations, brain pop, lab, reading essentials</p>	<p>Teacherspayteachers.com Ch. textbook resources</p>	

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		mass. I can explain why the total mass of the product in an open system appears to be less than the mass of reactants. I can compare and contrast balanced and unbalanced chemical equations to demonstrate the number of atoms does not change in the reaction.					
Week 25 Feb. 24 – 28	P.7.5E.1 P.7.5E.2 P.7.5E.3	I can conduct simple scientific investigations to show that total mass is not altered during a chemical reaction in a closed system. I can demonstrate an understanding of the law of conservation of			Powerpoints, video animations, brain pop, lab, reading essentials	Teacherspayteachers.com Ch. textbook resources	

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		mass. I can explain why the total mass of the product in an open system appears to be less than the mass of reactants. I can compare and contrast balanced and unbalanced chemical equations to demonstrate the number of atoms does not change in the reaction					
Week 26 March 3-7	Review 9 weeks test and take test				Powerpoints, video animations, brain pop, lab, reading essentials	Teacherspayteachers.com Ch. 10 textbook resources	

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End of 3rd 9 Weeks

Week 29 March 16 - 20	P.7.5C.3 P.7.5D.3	I can collect, organize, and interpret data from investigations to identify and analyze the relationships between physical and chemical properties. I can I can collect, organize, and interpret data using various tools regarding neutralization of		Scale, proportion, and quantity	Powerpoints, video animations, brain pop, lab, reading essentials	Teacherspayteachers.com Ch. 11 textbook resources	
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		acids and bases using common substances.					
Week 30 March 23 - 27	P.7.5C.3 P.7.5D.3	I can collect, organize, and interpret data from investigations to identify and analyze the relationships between physical and chemical properties. I can I can collect, organize, and interpret data using various tools regarding neutralization of acids and bases using common substances.		Scale, proportion, and quantity	Powerpoints, video animations, brain pop, lab, reading essentials	Teacherspayteachers.com Ch. 11 textbook resources	

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Week 31 March 30 – April 3	P.7.5C.3 P.7.5D.3	I can collect, organize, and interpret data from investigations to identify and analyze the relationships between physical and chemical properties. I can I can collect, organize, and interpret data using various tools regarding neutralization of acids and bases using common substances.		Scale, proportion, and quantity	Powerpoints, video animations, brain pop, lab, reading essentials	Teacherspayteachers.com Ch. 11 textbook resources	
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Week 32 April 6 - 10	E.7.9A.5 E.7.9A.6	I can analyze models to explain the cause and effect relationship between solar energy and convection and the resulting weather patterns		Patterns	Powerpoints, video animations, brain pop, lab, reading essentials	Teacherspayteachers.com Ch. 12 textbook resources	
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		and climate conditions					
Week 33 April 13 -17	E.7.9A.1 E.7.9A.2 E.7.9A.3	I can analyze and interpret weather patterns from various regions to differentiate between weather and climate. I can explain the weather conditions that result from the relationship between the movement of water and air masses.		Patterns	Powerpoints, video animations, brain pop, lab, reading essentials	Teacherspayteachers.com Ch. 13 textbook resources	
Week 34 April 20 - 24	E.7.9A.1 E.7.9A.2 E.7.9A.3	I can analyze and interpret weather patterns from various regions to differentiate between weather and climate. I can explain the		Patterns	Powerpoints, video animations, brain pop, lab, reading essentials	Teacherspayteachers.com Ch. 13 textbook resources	

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		weather conditions that result from the relationship between the movement of water and air masses.					
Week 35 April 27 - May 1	E.7.9A.1 E.7.9A.4 E.7.9A.7	I can construct an explanation for how climate is determined in an area using global and surface		Patterns	Powerpoints, video animations, brain pop, lab, reading essentials	Teacherspayteachers.com Ch. 14 textbook resources	
Week 36 May 4 - 8	E.7.9B.1 E.7.9B.2 E.7.9B.3 E.7.9C.1 E.7.9C.2	I can demonstrate an understanding of the relationship between natural phenomena, human activity, and global climate change. I can demonstrate an understanding that the seasons are the direct result of the Earth's tilt and the intensity of		Patterns Systems and system models Cause and effect: Mechanism and Explanation	Powerpoints, video animations, brain pop, lab, reading essentials	Teacherspayteachers.com Ch. 14 textbook resources	

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		sunlight on the Earth's hemispheres					
Week 37 May 11 - 15	E.7.9B.1 E.7.9B.2 E.7.9B.3 E.7.9C.1 E.7.9C.2	I can demonstrate an understanding of the relationship between natural phenomena, human activity, and global climate change. I can demonstrate an understanding that the seasons are the direct result of the Earth's tilt and the intensity of sunlight on the Earth's hemispheres		Patterns Systems and system models Cause and effect: Mechanism and Explanation	Powerpoints, video animations, brain pop, lab, reading essentials	Teacherspayteacher.com Ch. 14 textbook resources	

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Week 38 May 18 - 22	9 weeks test						
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End of 4th 9 Weeks