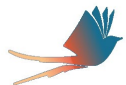
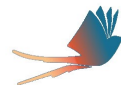


LIVE HS Science Curriculum Maps



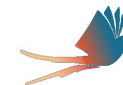
**Curriculum, Instruction
and Professional Learning**
Oklahoma City Public Schools

Biology



**Curriculum, Instruction
and Professional Learning**
Oklahoma City Public Schools

Chemistry



**Curriculum, Instruction
and Professional Learning**
Oklahoma City Public Schools

Physical Science



**Curriculum, Instruction
and Professional Learning**
Oklahoma City Public Schools

Pre-AP Biology



**Curriculum, Instruction
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Oklahoma City Public Schools

Environmental Science



**Curriculum, Instruction
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Oklahoma City Public Schools

Pre-AP Chemistry



**Curriculum, Instruction
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Oklahoma City Public Schools

Physics



**Curriculum, Instruction
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Oklahoma City Public Schools

AP Biology



**Curriculum, Instruction
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Oklahoma City Public Schools

AP Environmental Science



**Curriculum, Instruction
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Oklahoma City Public Schools

AP Chemistry



**Curriculum, Instruction
and Professional Learning**
Oklahoma City Public Schools

AP Physics

Biology

High School Biology Curriculum Map

1st Semester 2026-2027

	1st Nine Weeks										2nd Nine Weeks										
	August			September						October			November						December		
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9		
	11-14	17-21	24-28	31-4	8-11	14-18	21-24	28-2	5-9	12-16	19-23	26-30	3-6	9-13	16-20	30-4	7-11	14-18	21-25		
Unit of Study	Unit 0 Science Safety Classroom	Unit Plan <u>Ecosystems: Interactions & Dynamics - Serengeti</u>									Unit Plan <u>Ecosystems: Matter & Energy - Zombie Fires</u>										
Unit Driving Question		How do ecosystems work, and how can understanding them help us protect them?									What causes fires in ecosystems to burn and how should we manage them?										
Priority Standards and CFAs		<u>B.LS2.2</u> <u>V.A V.B(LX)</u> <u>B.LS2.6</u> <u>V.A V.B(LX)</u>									<u>B.LS1.5</u> <u>V.A V.B(LX)</u> <u>B.LS1.6</u> <u>V.A V.B(LX)</u> <u>B.LS1.7</u> <u>V.A V.B(LX)</u> <u>B.LS2.4</u> <u>V.A V.B(LX)</u> <u>B.LS2.5</u> <u>V.A V.B(LX)</u>										
All Unit Standards		<u>B.LS2.1</u> <u>B.LS2.2</u> <u>B.LS2.3</u> <u>B.LS2.4</u> <u>B.LS2.5</u> <u>B.LS2.6</u>									<u>B.LS1.5</u> <u>B.LS1.6</u> <u>B.LS1.7</u> <u>B.LS2.4</u> <u>B.LS2.5</u>										
Unit Resources		Unit Plan <u>Ecosystems: Interactions & Dynamics - Serengeti</u>									Unit Plan <u>Ecosystems: Matter & Energy - Zombie Fires</u>										

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High School Biology Curriculum Map

2nd Semester 2026-2027

	3rd Nine Weeks										4th Nine Weeks									
	January				February				March		April				May					
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	
	5-8	11-15	19-22	25-29	1-5	8-12	15-18	23-26	1-5	8-12	23-26	29-2	5-9	12-15	19-23	26-30	3-7	10-14	17-20	
Unit of Study	Unit Plan <u>Inheritance & Variation of Traits - Cancer</u>							Unit Plan <u>Natural Selection & Evolution - Mountain Lion</u>							Unit Plan <u>Common Ancestry & Speciation - Polar Bears</u>					
Unit Driving Question	“Who gets cancer and why? What can we do about it?”							“How does urbanization affect nonhuman populations, and how can we minimize harmful effects?”							“What will happen to Arctic Bear populations as their environment changes?”					
Priority Standards and CFAs	<u>B.LS1.3</u> V.A V.B(LX) <u>B.LS1.1</u> V.A V.B(LX)				<u>B.LS3.2</u> V.A V.B(LX) <u>B.LS3.3</u> V.A V.B(LX)				<u>B.LS4.2</u> V.A V.B(LX) <u>B.LS4.3</u> V.A V.B(LX)							<u>B.LS4.1</u> V.A V.B(LX) <u>B.LS4.5</u> V.A V.B(LX)				
All Unit Standards	<u>B.LS1.1</u> <u>B.LS1.2</u> <u>B.LS1.3</u> <u>B.LS1.4</u>				<u>B.LS3.1</u> <u>B.LS3.2</u> <u>B.LS3.3</u>				<u>B.LS2.8</u> <u>B.LS4.1</u> <u>B.LS4.2</u>		<u>B.LS4.3</u> <u>B.LS4.4</u> <u>B.LS4.5</u>			<u>B.LS2.8</u> <u>B.LS4.1</u> <u>B.LS4.2</u> <u>B.LS4.4</u> <u>B.LS4.5</u>						
Unit Resources	Unit Plan <u>Inheritance & Variation of Traits - Cancer</u>							Unit Plan <u>Natural Selection & Evolution - Mountain Lion</u>							Unit Plan <u>Common Ancestry & Speciation - Polar Bears</u>					

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Pre AP Biology

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AP Biology

High School AP Biology Curriculum Map

1st Semester 2026-2027

[Click Here to Access the Course and Exam Description](#)

	1st Nine Weeks									2nd Nine Weeks							
	August				September				October	November					December		
	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8
	11-14	17-21	24-28	31-4	8-11	14-18	21-24	28-2	5-9	19-23	26-30	3-6	9-13	16-20	30-4	7-11	14-18
Unit of Study	Unit 0 <u>Science Safety Classroom</u>	Unit 1 <u>Chemistry of Life</u>			Unit 2 <u>Cell Structure and Function</u>				Unit 3 <u>Cellular Energetics</u>		Unit 4 <u>Cell Communication and Cell Cycle</u>			Unit 5 <u>Heredity</u>			
Unit Driving Question																	
Progress Checks		<u>Unit 1 Progress Check</u>			<u>Unit 2 Progress Check</u>				<u>Unit 3 Progress Check</u>		<u>Unit 4 Progress Check</u>			<u>Unit 5 Progress Check</u>			
Topics	◆ Intro to AP classes (expectations, college credit, AP exam) ◆ Signing up for AP Classroom	◆ The structure and chemical properties of water ◆ The structure and function of carbohydrates ◆ The structure and function of lipids ◆ The structure of DNA and RNA ◆ The structure and function of proteins			◆ Cellular components and functions of those components ◆ Cell interaction with its environment ◆ The cell membrane structure and function ◆ Cell regulatory mechanisms like osmosis and selective permeability ◆ Cellular compartmentalization				◆ The structure and function of enzymes ◆ The role of energy in living systems ◆ The processes of photosynthesis ◆ The processes of cellular respiration ◆ Molecular diversity and cellular response to environmental changes		◆ The mechanisms of cell communication ◆ Signal transduction ◆ Cellular responses and feedback mechanisms ◆ The events in a cell cycle			◆ The process and function of meiosis ◆ The concept of genetic diversity ◆ Mendel’s laws and probability ◆ Non-Mendelian Inheritance ◆ Factors affecting inheritance and gene expression			
Unit Labs/Resources	<u>Resources for Teachers: How to Get Started in AP Classroom</u> <u>Teacher Step by Step for AP Classroom Signups</u>				<u>Lab 4- Diffusion and Osmosis</u> <u>Lab 11- Transpiration (water potential)</u> <u>Lab 13- Enzyme Activity</u>				<u>Lab 5- Photosynthesis</u> <u>Lab 6- Cellular Respiration</u>		<u>Lab 7- Cell Division: Mitosis and Meiosis</u>			<u>Lab 8- Biotechnology: Bacterial Transformation</u> <u>Lab 9- Biotechnology: Restriction Enzyme Analysis of DNA</u>			

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	Student Step by Step for AP Classroom Signups How to Use AP Classroom as a Teacher How to use AP Classroom Progress Checks as formative assessments and homework. National AP Biology Teacher Group Course At A Glance Official Teacher AP Investigative Lab Manual Official Student Lab Manual Old FRQs by Unit					
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High School AP Biology Curriculum Map

2nd Semester 2026-2027

	3rd Nine Weeks										4th Nine Weeks								
	January				February				March		April					May			
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9
	4-8	11-15	18-22	25-29	1-5	8-12	15-19	2-26	1-5	8-12	22-26	29-2	5-9	12-16	19-23	26-30	3-7	10-14	17-21
Unit of Study	Unit 6 <u>Gene Expression and Regulation</u>						Unit 7 <u>Natural Selection</u>				Unit 8 <u>Ecology</u>				Exam Prep	Exams & Post Exam Unit			
Unit Driving Question																			
Progress Checks	<u>Unit 6 Progress Check</u>						<u>Unit 7 Progress Check</u>				<u>Unit 8 Progress Check</u>								
Topics	◆ The roles and functions of DNA and RNA ◆ The mechanisms of gene expression ◆ How genotype affects phenotype ◆ Mutations, genetic diversity, and natural selection ◆ Genetic engineering and biotechnology						◆ Evidential support for evolution and common ancestry ◆ The mechanisms of natural selection and speciation ◆ Environmental and human-caused factors in evolution ◆ Charting species ancestry through phylogenetic trees and cladograms ◆ Models of the origin of life on Earth ◆ Using DNA/molecular data to compare and understand evolutionary relationships				◆ Communication and responses to environmental changes ◆ Energy flow within and across ecosystems ◆ Factors in the growth, density, and success of populations ◆ Factors in community and ecosystem dynamics ◆ Invasive species, human interaction, and environmental changes				◆ Orientation to use of Bluebook ◆ Mock Exam (timed sections with full exam)				
Unit Labs/Resources	<u>Lab 10- Energy Dynamics</u>														<u>Bluebook</u> <u>Practice Exams</u> <u>Released Exams Questions</u>				

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Physical Science

High School Physical Science Curriculum Map

1st Semester 2026-2027

	1st Nine Weeks										2nd Nine Weeks										
	August			September				October			November					December					
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9		
	11-14	17-21	24-28	31-4	8-11	14-18	21-24	28-2	5-9	12-16	19-23	26-30	3-6	9-13	16-20	30-4	7-11	14-18	21-25		
Unit of Study	Unit 0 Science Safety Classroom	Unit Plan Atomic Properties and the Periodic Table									Unit Plan Properties of Chemical Reactions and Conservation of Energy										
Unit Driving Question											“What is happening to the Titanic, and how can understanding it help protect our history and future?”										
Priority Standards and CFAs		PS.PS1.1 V.A V.B PS.PS1.2 V.A V.B									PS.PS1.5 V.A V.B PS.PS1.7 V.A V.B										
All Unit Standards		PS.PS1.1 PS.PS1.2									PS.PS1.5 PS.PS1.7										
Unit Resources		Unit Plan Atomic Properties and the Periodic Table									Unit Plan Properties of Chemical Reactions and Conservation of Energy										

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High School Physical Science Pacing Guide

2nd Semester 2026-2027

	3rd Nine Weeks										4th Nine Weeks										
	January				February				March				April					May			
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9		
	4-8	11-15	18-22	25-29	1-5	8-12	15-19	2-26	1-5	8-12	22-26	29-2	5-9	12-16	19-23	26-30	3-7	10-14	17-21		
Unit of Study	Unit Plan Energy								Unit Plan Acceleration and Momentum					Unit Plan Waves (Electromagnetic Radiation and Sound)							
Unit Driving Question	“How could gravity power our homes?”								“Why are some things harder to start moving and harder to stop?”					“How do we use radiation in our lives and is it safe for humans?”							
Priority Standards and CFAs	PS.PS3.1 V.A V.B PS.PS3.2 V.A V.B PS.PS3.4 V.A V.B PS.PS2.5 V.A V.B								PS.PS2.1 V.A V.B PS.PS2.2 V.A V.B					PS.PS4.1 V.A V.B PS.PS4.4 V.A V.B							
All Unit Standards	PS.PS3.1 PS.PS3.2 PS.PS3.3 PS.PS3.4 PS.PS2.5								PS.PS2.1 PS.PS2.2 PS.PS2.3					PS.PS4.1 PS.PS4.2 PS.PS4.4 PS.PS4.5							
Unit Resources	Unit Plan Energy								Unit Plan Acceleration and Momentum					Unit Plan Waves (Electromagnetic Radiation and Sound)							

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Chemistry

High School Chemistry Curriculum Map

1st Semester 2026-2027

	1st Nine Weeks										2nd Nine Weeks									
	August			September				October			November				December					
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	
	11-14	17-21	24-28	31-4	8-11	14-18	21-24	28-2	5-9	12-16	19-23	26-30	3-6	9-13	16-20	30-4	7-11	14-18	21-25	
Unit of Study	Unit 0 Science Safety Classroom	Unit Plan Thermodynamics			Unit Plan Structure and Properties of Matter						Unit Plan Molecular Processes in Earth Systems									
Unit Driving Question		“How can we slow the flow of energy on the Earth to protect vulnerable coastal communities”			“What causes lightning, and why are some places safer than others when it strikes?”						“How can we find, make, and recycle the substances we need to live on and beyond Earth?”									
Priority Standards and CFAs		CH.PS3.4 V.A V.B (LX)			CH.PS1.1 V.A V.B (LX)						CH.PS1.2 V.A V.B (LX)									
All Unit Standards		CH.PS3.4			CH.PS1.1 CH.PS1.3 CH.PS2.6						CH.PS1.1 CH.PS1.2 CH.PS1.3 CH.PS2.6									
Unit Resources		Unit Plan Thermodynamics			Unit Plan Structure and Properties of Matter						Unit Plan Molecular Processes in Earth Systems									

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High School Chemistry Pacing Guide 2nd Semester 2026-2027

	3rd Nine Weeks										4th Nine Weeks								
	January				February				March			April					May		
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9
	4-8	11-15	18-22	25-29	1-5	8-12	15-19	2-26	1-5	8-12	22-26	29-2	5-9	12-16	19-23	26-30	3-7	10-14	17-21
Unit of Study	Unit Plan <u>Chemical Reactions in Our World</u>								Unit Plan <u>Energy from Chemical & Nuclear Reactions</u>					Unit Plan <u>Waves and Their Applications</u>					
Unit Driving Question	“Why are oysters dying, and how can we use chemistry to protect them?”								“How can chemistry help us evaluate fuels and transportation options to benefit Earth and our communities?”					“Why do certain materials produce a specific color of light when they burn?”					
Priority Standards and CFAs	CH.PS1.7 V.A V.B (LX)								CH.PS1.5 V.A V.B (LX)					CH.PS4.1 V.A V.B (LX)					
All Unit Standards	CH.PS1.6 CH.PS1.7								CH.PS1.5 CH.PS1.4 CH.PS1.8 CH.PS3.3					CH.PS4.1 CH.PS4.3					
Unit Resources	Unit Plan <u>Chemical Reactions in Our World</u>								Unit Plan <u>Energy from Chemical & Nuclear Reactions</u>					Unit Plan <u>Waves and Their Applications</u>					

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Pre AP Chemsitry

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AP Chemistry

High School AP Chemistry Curriculum Map

1st Semester 2026-2027

[Click Here to Access the Course and Exam Description](#)

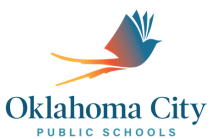
	1st Nine Weeks									2nd Nine Weeks							
	August			September				October		November					December		
	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8
	11-14	17-21	24-28	31-4	8-11	14-18	21-24	28-2	5-9	19-23	26-30	3-6	9-13	16-20	30-4	7-11	14-18
Unit of Study	Unit 0 <u>Science Safety Classroom</u>	Unit 1 <u>Atomic Structure and Properties</u>		Unit 2 <u>Compound Structure and Properties</u>		Unit 3 <u>Properties of Substances and Mixtures</u>				Unit 4 <u>Chemical Reactions</u>					Unit 5 <u>Kinetics</u> Cont. after Winter Break		
Unit Driving Question																	
Progress Checks		<u>Progress Check 1</u>		<u>Progress Check 2</u>		<u>Progress Check 3</u>				<u>Progress Check 4</u>					<u>Progress Check 5</u>		
Topics	◆ Intro to AP classes (expectations, college credit, AP exam) ◆ Signing up for AP Classroom	◆ Moles and molar mass ◆ Mass spectroscopy of elements ◆ Elemental composition of pure substances ◆ Composition of mixtures ◆ Atomic structure and electron configuration ◆ Photoelectron spectroscopy ◆ Periodic trends ◆ Valence electrons and ionic compounds		◆ Types of chemical bonds ◆ Intramolecular force and potential energy ◆ Structure of ionic solids ◆ Structure of metals and alloys ◆ Lewis diagrams ◆ Resonance and formal charge ◆ VSEPR and bond hybridization		◆ Intermolecular and Interparticle Forces ◆ Properties of Solids ◆ Solids, liquids, and gases ◆ Ideal Gas Law ◆ Kinetic molecular theory ◆ Deviation from the Ideal Gas Law ◆ Solutions and mixtures ◆ Representations of Solutions ◆ Separations of Solutions and Mixtures ◆ Solubility ◆ Spectroscopy and the Electromagnetic spectrum ◆ Properties of Photons ◆ Beer-Lambert Law				◆ Introduction for Reactions ◆ Net Ionic Equations ◆ Representations of Reactions ◆ Physical and Chemical Changes ◆ Stoichiometry ◆ Introduction to Titration ◆ Types of Chemical Reactions ◆ Introduction to Acid-Base Reactions ◆ Oxidation-Reduction (Redox) Reactions					◆ Reaction Rate ◆ Introduction to Rate Law ◆ Concentration Changes Over Time ◆ Elementary Reactions ◆ Collision Model ◆ Reaction Energy Profile ◆ Introduction to Reaction Mechanisms ◆ Pre-Equilibrium Approximation ◆ Multistep Reaction Energy Profile ◆ Catalysis		

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Unit Labs/Resources	Resources for Teachers: How to Get Started in AP Classroom Teacher Step by Step for AP Classroom Signups Student Step by Step for AP Classroom Signups How to Use AP Classroom as a Teacher How to use AP Classroom Progress Checks as formative assessments and homework.	Topic 1.1- Investigation 3: What makes hard water hard?	Topic 2.1- Investigation 6: What's in that bottle? Topic 2.2- Investigation 5: Sticky Question: How do you separate molecules that are attracted to one another?	Topic 3.2 Investigation 6: What's in that bottle? Topic 3.7 Investigation 7: Using the Principle That Each Substance Has Unique Properties to Purify a Mixture - An Experiment in Applying Green Chemistry in Purification Topic 3.9- Investigation 5: Sticky Question: How do you separate molecules that are attracted to one another? Topic 3.11- Investigation 1: What is the Relationship Between the Concentration of a Solution and the Amount of Transmitted Light Through the Solution?	Topic 4.5- Investigation 7: Using the Principle That Each Substance Has Unique Properties to Purify a Mixture - An Experiment in Applying Green Chemistry in Purification	Topic 5.1- Investigation 10: How Long Will That Marble Statue Last? Topic 5.3- Investigation 11: What Is the Rate Law of the Fading of Crystal Violet Using Beer's Law?

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High School AP Chemistry Curriculum Map 2nd Semester 2026-2027

	3rd Nine Weeks										4th Nine Weeks								
	January				February				March			April					May		
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9
	4-8	11-15	18-22	25-29	1-5	8-12	15-19	2-26	1-5	8-12	22-26	29-2	5-9	12-16	19-23	26-30	3-7	10-14	17-21
Unit of Study	Unit 5 <u>Kinetics</u> Cont.	Unit 6 <u>Thermochemistry</u>		Unit 7 <u>Equilibrium</u>				Unit 8 <u>Acids & Bases</u>					Unit 9 <u>Thermodynamics and Electrochemistry</u>		Exam Prep	Exams & Post Exam Unit			
Unit Driving Question																			
Progress Checks	<u>Cont.</u>	<u>Progress Check 6</u>		<u>Progress Check 7</u>				<u>Progress Check 8</u>					<u>Progress Check 9</u>						
Topics	<u>Cont.</u> ♦ Endothermic and Exothermic Processes ♦ Energy Diagrams ♦ Heat Transfer and Thermal Equilibrium ♦ Heat Capacity and Calorimetry ♦ Energy of Phase Changes ♦ Introduction to Enthalpy of Reaction ♦ Bond Enthalpies ♦ Enthalpy Of Formation ♦ Hess's Law	♦ Introduction to Equilibrium ♦ Direction of Reversible Reactions ♦ Reaction Quotient and Equilibrium Constant ♦ Calculating The Equilibrium Constant ♦ Magnitude of the Equilibrium Constant ♦ Calculating Equilibrium Concentrations ♦ Representations of Equilibrium ♦ Introduction To Le Châtelier's Principle ♦ Reaction Quotient and Le Châtelier's Principle		♦ Introduction To Acids And Bases ♦ pH and pOH of Strong Acids and Bases ♦ Weak Acid and Base Equilibria ♦ Acid-Base Reactions And Buffers ♦ Molecular Structure Of Acids And Bases ♦ pH And pK _a ♦ Properties Of Buffers ♦ Henderson-Hasselbalch Equation ♦ Buffer Capacity ♦ pH and Solubility					♦ Introduction to Entropy ♦ Absolute Entropy and Entropy Change ♦ Gibbs Free Energy and Thermodynamic Favorability ♦ Thermodynamic and Kinetic Control ♦ Free energy and equilibrium ♦ Free Energy and Dissolution ♦ Galvanic (voltaic) and Electrolyte Cells					♦ Orientation on the use of Bluebook ♦ Mock Exam (timed sections with full exam)					

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			◆ Introduction To Solubility ◆ Equilibria ◆ Common-Ion Effect		◆ Cell Potential and Free Energy ◆ Cell Potential Under Nonstandard Conditions ◆ Electrolysis and Faraday's Law		
Unit Labs/Resources	Cont.	Topic 6.4, Topic 6.5, and Topic 6.6- <u>Investigation 12: The Hand Warmer Challenge - Where Does the Heat Come From?</u>	Topic 7.9 and Topic 7.10- <u>Investigation 13: Can We Make the Colors of the Rainbow? An Application of Le Châtelier's Principle</u>	Topic 8.5- <u>Investigation 14: How Do the Structure and the Initial Concentration of an Acid and a Base Influence the pH of the Resultant Solution During a Titration?</u> Topic 8.8- <u>Investigation 15 SE: To What Extent Do Common Household Products Have Buffering Activity?</u> Topic 8.9- <u>Investigation 9: Can the Individual Components of Quick Ache Relief Be Used to Resolve Consumer Complaint?</u> Topic 8.10- <u>Investigation 16 SE: The Preparation and Testing of an Effective Buffer: How Do Components Influence a Buffer's pH and Capacity?</u>	<u>Bluebook</u> <u>Practice Exams</u> <u>Released Exams Questions</u>		

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Physics

High School Physics Curriculum Map

1st Semester 2026-2027

	1st Nine Weeks										2nd Nine Weeks								
	August			September			October				November			December					
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9
	11-14	17-21	24-28	31-4	8-11	14-18	21-24	28-2	5-9	12-16	19-23	26-30	3-6	9-13	16-20	30-4	7-11	14-18	21-25
Unit of Study	Unit 0 Science Safety Classroom	Unit Plan Energy Flow from Earth's System					Unit Plan Energy, Forces, & Earth's Crust					Unit Plan Collisions & Momentum							
Unit Driving Question		"How can we design more reliable systems to meet our communities' energy needs?"					"How do forces in Earth's interior determine what will happen to the surface we see?"					"What can we do to make driving safer for everyone?"							
Priority Standards and CFAs		PH.PS3.1 V.A V.B PH.PS3.2 V.A V.B PH.PS2.5 V.A V.B										PH.PS2.1 V.A V.B PH.PS2.2 V.A V.B							
All Unit Standards		PH.PS2.5 PH.PS3.1 PH.PS3.2 PH.PS3.3 PH.PS3.5					PH.PS2.1 PH.PS1.8					PH.PS2.1 PH.PS2.2 PH.PS2.3							
Unit Resources		Unit Plan Energy Flow from Earth's System					Unit Plan Energy, Forces, & Earth's Crust					Unit Plan Collisions & Momentum							

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High School Physics Pacing Guide 2nd Semester 2026-2027

 Oklahoma City PUBLIC SCHOOLS	3rd Nine Weeks										4th Nine Weeks								
	January				February				March			April				May			
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9
	4-8	11-15	18-22	25-29	1-5	8-12	15-19	2-26	1-5	8-12	22-26	29-2	5-9	12-16	19-23	26-30	3-7	10-14	17-21
Unit of Study	Unit Plan Meteors, Orbits, & Gravity								Unit Plan Electromagnetic Radiation					Unit Plan Stars and the Big Bang					
Unit Driving Question	“How have collisions with objects from space changed in the past, and how could they affect our future?”								“How do we use radiation in our lives, and is it safe for humans?”					“Why do stars shine and will they shine forever?”					
Priority Standards and CFAs	PH.PS3.1 V.A V.B (also in unit 1) PH.PS3.2 V.A V.B (also in unit 1)								PH.PS4.1 V.A V.B PH.PS4.4 V.A V.B					PH.PS1.8 V.A V.B					
All Unit Standards	PH.PS2.4 PH.PS3.1 (also in unit 1) PH.PS3.2 (also in unit 1)								PH.PS2.5 PH.PS4.1 PH.PS4.2 PH.PS4.3 PH.PS4.4 PH.PS4.5					PH.PS1.8					
Unit Resources	Unit Plan Meteors, Orbits, & Gravity								Unit Plan Electromagnetic Radiation					Unit Plan Stars and the Big Bang					

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AP Physics

High School AP Physics I Curriculum Map

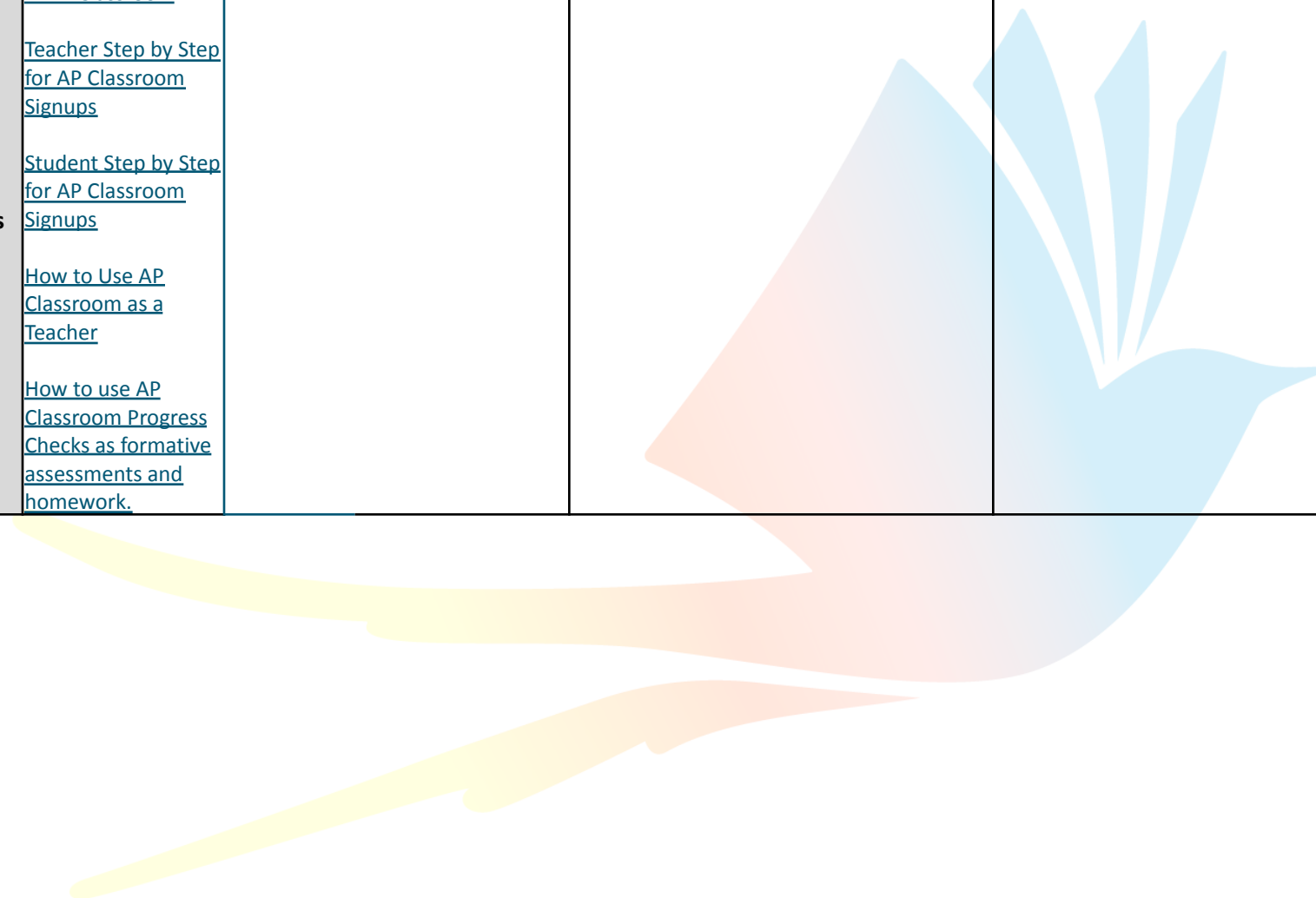
1st Semester 2026-2027

[Click Here to Access the Course and Exam Description](#)

	1st Nine Weeks									2nd Nine Weeks							
	August				September			October		November						December	
	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8
	11-14	17-21	24-28	31-4	8-11	14-18	21-24	28-2	5-9	19-23	26-30	3-6	9-13	16-20	30-4	7-11	14-18
Unit of Study	Unit 0 <u>Science Safety Classroom</u>	Unit 1 <u>Kinematics</u>			Unit 2 <u>Forces and Translational Dynamics</u>					Unit 3 <u>Work, Energy, and Power</u>						Unit 4 <u>Linear Momentum</u> Cont. after Winter Break	
Unit Driving Question																	
Progress Checks		<u>Unit 1 Progress Check</u>			<u>Unit 2 Progress Check</u>					<u>Unit 3 Progress Check</u>						<u>Unit 4 Progress Check</u>	
Topics	◆ Intro to AP classes (expectations, college credit, AP exam) ◆ Signing up for AP Classroom	◆ One-dimensional vectors and scalar quantities ◆ Analyzing displacement, velocity, and acceleration ◆ Visual and mathematical representations of motion ◆ Frames of reference and relative motion concepts ◆ Motion and vector analysis in two dimensions			◆ Defining systems and analyzing centers of mass ◆ Applying forces through free-body diagrams ◆ Evaluating Newton's Third Law of Motion ◆ Conceptualizing inertia and Newton's First Law ◆ Predicting outcomes with Newton's Second Law ◆ Calculations involving universal gravitational force ◆ Differentiating kinetic and static friction models ◆ Investigating elastic properties and spring forces ◆ Dynamics of uniform and non-uniform circular motion					◆ Investigating translational kinetic energy models ◆ Applying mechanical work and energy principles ◆ Analyzing gravitational and elastic potential energy ◆ Evaluating the conservation of energy theorem ◆ Calculations involving mechanical power and efficiency						◆ Defining linear momentum in systems ◆ Analyzing impulse and momentum changes ◆ Applying conservation of linear momentum ◆ Differentiating elastic and inelastic collisions	

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Unit Labs/Resources	Resources for Teachers: How to Get Started in AP Classroom Teacher Step by Step for AP Classroom Signups Student Step by Step for AP Classroom Signups How to Use AP Classroom as a Teacher How to use AP Classroom Progress Checks as formative assessments and homework.				
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High School AP Physics I Curriculum Map 2nd Semester 2026-2027

	3rd Nine Weeks										4th Nine Weeks								
	January				February				March		April						May		
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9
	4-8	11-15	18-22	25-29	1-5	8-12	15-19	2-26	1-5	8-12	22-26	29-2	5-9	12-16	19-23	26-30	3-7	10-14	17-21
Unit of Study	Unit 4 <u>Linear Momentum</u> Cont.		Unit 5 <u>Torque and Rotational Dynamics</u>				Unit 6 <u>Energy and Momentum of Rotating Systems</u>				Unit 7 <u>Oscillations</u>			Unit 8 <u>Fluids</u>		Exam Prep	Exams & Post Exam Unit		
Unit Driving Question																			
Progress Checks	Cont.		<u>Unit 5 Progress Check</u>				<u>Unit 6 Progress Check</u>				<u>Unit 7 Progress Check</u>			<u>Unit 8 Progress Check</u>					
Topics	Con't		♦ Investigating rotational kinematics and angular variables ♦ Relating linear and angular motion parameters ♦ Analyzing torque and its physical applications ♦ Calculating moment of inertia in systems ♦ Evaluating rotational equilibrium and inertia principles ♦ Predicting outcomes with Newton's Second Law for rotation				♦ Modeling energy within rotating systems ♦ Relationship between torque and work ♦ Analyzing momentum and impulse variables ♦ Applying conservation of angular momentum ♦ Investigating dynamics of rolling objects ♦ Mechanics of circular satellite orbits				♦ Defining simple harmonic motion systems ♦ Relating frequency and period variables ♦ Representing and analyzing harmonic motion ♦ Evaluating energy in harmonic oscillators			♦ Investigating internal structure and density models ♦ Analyzing pressure and its physical applications ♦ Relating fluid mechanics to Newton's Laws ♦ Evaluating fluids through conservation law principles		♦ Orientation to the use of Bluebook ♦ Mock Exam (timed sections with full exam)			
Unit Labs/Resources																<u>Bluebook</u> <u>Practice Exams</u>			

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						Released Exams Questions	
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Environmental Science

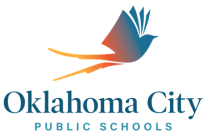
Environmental Science Pacing Guide

1st Semester 2026-2027

	1st Nine Weeks										2nd Nine Weeks									
	August			September				October			November				December					
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	
	11-14	17-21	24-28	31-4	8-11	14-18	21-24	28-2	5-9	12-16	19-23	26-30	3-6	9-13	16-20	30-4	7-11	14-18	21-25	
Unit of Study	Unit 0 Science Safety Classroom	Unit Plan Ecology										Unit Plan Earth's Systems								
Unit Driving Question		"How do our choices affect the health of local ecosystems?"										"How can changes in one of Earth's Systems impact the other systems?"								
Priority Standards and CFAs		EN.LS2.2 V.A V.B EN.LS2.4 V.A V.B EN.LS2.6 V.A V.B										EN.ESS2.2 V.A V.B EN.ESS2.3 V.A V.B								
All Unit Standards		EN.LS2.1 EN.LS2.2 EN.LS2.4 EN.LS2.6 EN.LS2.7										EN.ESS2.1 EN.ESS2.2 EN.ESS2.3								
Unit Resources		Unit Plan Ecology Chapters: 4, 5, 6, 7, 11 Core Lab: Modeling Exponential Growth										Unit Plan Earth's Systems Chapters: 13 Core Lab: Soil Erosion Lab								

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Environmental Science Pacing Guide 2nd Semester 2026-2027

	3rd Nine Weeks										4th Nine Weeks								
	January				February				March		April					May			
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9
	4-8	11-15	18-22	25-29	1-5	8-12	15-19	2-26	1-5	8-12	22-26	29-2	5-9	12-16	19-23	26-30	3-7	10-14	17-21
Unit of Study	Unit Plan <u>Natural Resources</u>										Unit Plan <u>A Sustainable Future</u>								
Unit Driving Question	“How are changes in the atmosphere driven by changes in other systems?”										“How do human activity and Earth’s natural resources affect one another?”								
Priority Standards and CFAs	EN.ESS2.4 V.A V.B EN.ESS2.6 V.A V.B EN.ESS2.7 V.A V.B										EN.ESS3.3 V.A V.B EN.ESS3.4 V.A V.B								
All Unit Standards	EN.ESS2.4 EN.ESS2.5 EN.ESS2.6 EN.ESS2.7 EN.ESS3.1										EN.ESS3.2 EN.ESS3.3 EN.ESS3.4								
Unit Resources	Unit Plan <u>Natural Resources</u> Chapters: 15 , 16 , 17 Core Lab: Ocean Acidification Lab										Unit Plan <u>A Sustainable Future</u> Chapters: 8 , 9 , 10 , 12 , 14 , 18 , 2 , 3 Core Lab: Solar Oven Project								

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AP Environmental

High School AP Environmental Curriculum Map

1st Semester 2026-2027

[Click Here to Access the Course and Exam Description](#)

	1st Nine Weeks									2nd Nine Weeks							
	August				September			October		November				December			
	1	2	3	4	5	6	7	8	9	1	2	3	4	5	6	7	8
	11-14	17-21	24-28	31-4	8-11	14-18	21-24	28-2	5-9	19-23	26-30	3-6	9-13	16-20	30-4	7-11	14-18
Unit of Study	Unit 0 Science Safety Classroom	Unit 1 The Living World: Ecosystems			Unit 2 The Living World: Biodiversity			Unit 3 Populations		Unit 4 Earth Systems & Resources				Unit 5 Land & Water Use			
Unit Driving Question																	
Progress Checks		Progress Check 1			Progress Check 2			Progress Check 3		Progress Check 4				Progress Check 5			
Topics	◆ Intro to AP classes (expectations, college credit, AP exam) ◆ Signing up for AP Classroom	◆ Introduction to ecosystems ◆ Terrestrial and aquatic biomes ◆ Primary productivity ◆ Carbon, nitrogen, phosphorus, and water cycles ◆ Trophic levels ◆ The flow of energy in an ecosystem and the 10% rule ◆ Food chains and food webs			◆ Introduction to biodiversity ◆ Ecosystem services ◆ Island biogeography ◆ Ecological Tolerance ◆ Natural disruptions to ecosystems ◆ Ecological succession			◆ Generalist and specialist species ◆ Survivorship curves ◆ Population growth and resource availability ◆ Age structure diagrams ◆ Human population dynamics		◆ Plate tectonics ◆ Soil formation and erosion ◆ Earth's atmosphere ◆ Global wind patterns ◆ Earth's geography and climate ◆ El Niño and La Niña				◆ Tragedy of the Commons ◆ The Green Revolution ◆ Types and effects of irrigation ◆ Pest-control methods ◆ Meat production and overfishing ◆ The impacts of mining ◆ Urbanization and ecological footprints ◆ Sustainable practices (crop rotation, aquaculture)			
Unit Labs/Resources	Resources for Teachers: ◆ National APES Teacher's Facebook Page ◆ How to Get Started in AP Classroom	◆ Smede's slides Unit 1 ◆ Guided Notes Unit 1 ◆ Unit 1 Video Playlist ◆ BioInteractive- Predator-Prey Relationship ◆ Biome Coloring Page ◆ Nitrogen Cycle Game			◆ Smede's Unit 2 Slides ◆ Guided Notes Unit 2 ◆ Unit 2 Video Playlist ◆ Island Biodiversity ◆ Virtual Lab ◆ Parking Lot Biodiversity			◆ Smede's Unit 3 Slides ◆ Guided Notes Unit 3 ◆ Unit 3 Video Playlist ◆ Dollar Street ◆ Unit 3 video clips ◆ Power of Pyramids-Gapminder		◆ Smede's Unit 4 Slides ◆ Guided Notes Unit 4 ◆ Unit 4 Video Playlist ◆ Earth's systems bingo ◆ Plate Tectonics Virtual Lab with FRQ ◆ Oreo Plate Tectonics Lab ◆ FRQ Scoring Guide				◆ Smede's Unit 5 Slides ◆ Guided Notes Unit 5 ◆ Unit 5 Video Playlist ◆ Forestry Skit Instructions ◆ Forestry Skits Chart ◆ Forestry Skits Chart Key ◆ Cookie Mining A Procedure ◆ Cookie Mining A Worksheet			

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	◆ Teacher Step by Step for AP Classroom Signups ◆ Student Step by Step for AP Classroom Signups ◆ How to Use AP Classroom as a Teacher ◆ How to use AP Classroom Progress Checks as formative assessments and homework.	◆ NNP Virtual Lab ◆ Analyzing Climate Graphs ◆ BioInteractive-Creating Chains and Webs to Model Ecological Relationships	◆ Ecosystem Services Activity and Card Sort ◆ Primary Succession Activity ◆ Primary Succession Key ◆ Natural Selection and Adaptation Bunny Virtual Lab ◆ BioInteractive-Developing an Explanation for Mouse Fur Color ◆ Survival of the Sweetest (can use candy or beads for this lab)	◆ TE:Power of the Pyramid ◆ Population Bubble Lab ◆ Don't Panic-Video ◆ Don't Panic-Student Guide ◆ Otter Case Study ◆ Island Royale Wolves and Moose ◆ Modeling Exponential Growth Student Instructions ◆ Modeling Exponential Growth Data Tables and Questions	◆ Soil in a Jar and Texture by Feel Write-up ◆ Texture by Feel Flow Chart ◆ Solar Insolation Lab ◆ El Nino Coloring Activity ◆ River Runner Watershed Activity ◆ Coriolis Effect Balloon Lab	◆ Virtual Tragedy of the Commons (fish) ◆ Interactive Case Study for The Effects of Fungicides on Bumble Bee Colonies ◆ Pesticides Endocrine Disruptor ◆ Overfishing and Aquaculture ◆ Salinity Lab ◆ Irrigation Methods ◆ Biggest Little Farm Video worksheet ◆ Biggest Little Farm Video Worksheet Key ◆ Ecological Footprint Calculator ◆ Surface Water Contamination
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High School AP Environmental Curriculum Map

2nd Semester 2026-2027

	3rd Nine Weeks										4th Nine Weeks								
	January				February				March			April					May		
	1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9
	4-8	11-15	18-22	25-29	1-5	8-12	15-19	2-26	1-5	8-12	22-26	29-2	5-9	12-16	19-23	26-30	3-7	10-14	17-21
Unit of Study	Unit 6 <u>Energy Resources & Consumption</u>				Unit 7 <u>Atmospheric Pollution</u>				Unit 8 <u>Aquatic and Terrestrial Pollution</u>			Unit 9 <u>Global Change</u>					Exam Prep	Exams & Post Exam Unit	
Unit Driving Question																			
Progress Checks	<u>Progress Check 6</u>				<u>Progress Check 7</u>				<u>Progress Check 8</u>			<u>Progress Check 9</u>							
Topics	◆ Fossil fuels, nuclear energy, and ethanol varieties ◆ Global distribution of resources and consumption trends ◆ Renewable options: solar, wind, geothermal, and hydroelectric ◆ Strategies for energy conservation				◆ Atmospheric pollution fundamentals ◆ Formation of photochemical smog ◆ Pollutants in indoor environments ◆ Mitigation of atmospheric contaminants ◆ Acidic deposition processes ◆ Impacts of noise pollution				◆ Origin and types of contaminants ◆ Anthropogenic effects on ecological communities ◆ Thermal degradation of water quality ◆ Management and minimization of solid waste ◆ Links between pollution and physiological health ◆ Pathogenic agents and communicable diseases			◆ Stratospheric ozone depletion ◆ The Greenhouse Effect and global climate change ◆ Oceanic warming and acidification ◆ Impacts of invasive species ◆ Anthropogenic disruptions to biodiversity					◆ Orientation on the use of Bluebook ◆ Mock Exam (timed sections with full exam)		
Unit Labs/Resources	◆ Smede's Unit 6 Slides ◆ Guided Notes Unit 6 ◆ Unit 6 Video Playlist ◆ Energy Speed Dating Instructions ◆ Energy Speed Dating Chart (to be filled out during speed dating)				◆ Smede's Unit 7 Slides ◆ Guided Notes Unit 7 ◆ Unit 7 Video Playlist ◆ Practice AP Exam ◆ Air Pollution Speed Dating Instruction and Chart ◆ Air Pollution Cards				◆ Smede's Unit 8 Slides ◆ Guided Notes Unit 8 ◆ Unit 8 Video Playlist ◆ FRQ Plastic Pollution ◆ Modeling Disease Spread ◆ Range of Tolerance Graphing ◆ Sewage Treatment Card			◆ Smede's Unit 9 Slides ◆ Guided Notes Unit 9 ◆ Unit 9 Video Playlist ◆ Bio interactive GMO Mosquitos ◆ Ozone Sketchnotes ◆ Modeling Stratospheric Ozone Depletion ◆ BioInteractive-Coral Reefs and					Bluebook Practice Exams Released Exams Questions		

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	◆ Electricity card sort ◆ Deep Water Horizon Movie Questions ◆ Oil Spill Lab Student ◆ Oil Spill Lab Teacher ◆ Switch Energy	for absent students ◆ Indoor Air Pollution Scavenger Hunt ◆ Acid Rain Lab ◆ Car Exhaust Lab ◆ Air Pollution Discussion Panel ◆ Radon Case Study-Student ◆ Radon Case Study-Teacher ◆ Trees and the City DataNugget ◆ Microplastics in the Atmosphere Article ◆ Microplastics in the Atmosphere Worksheet	Sort ◆ Wetlands Data Nugget ◆ Diseases Slides ◆ Disease Fillable Chart ◆ Coral Reef ◆ Great Pacific Garbage Patch ◆ Water Tasting Lab	Global Warming ◆ Racing Extinction Video Questions ◆ Ocean Acidification Lab Instructions ◆ Ocean Acidification Lab Worksheet ◆ Ocean Acidification FRQ ◆ Ocean Acidification FRQ Key	◆ Video: Quantitative Reasoning Skills Part 1 ◆ Video: Quantitative Reasoning Skills Part 2	
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