

Quarter 1

Scope	Standards	Activities	Suggested Pacing	Notes
Atoms, Molecules, and Mixtures	7.PS1.1 7.PS1.2	Engage	Accessing Prior Knowledge Scope Phenomenon	*Activities in blue are required
		Explore	Explore 1: Activity - Washers, Nuts, and Bolts Explore 2: Activity - Elements, Compounds, and Mixtures Explore 3: Activity - Will It Change?	
		Explain	Picture vocabulary Linking Literacy Picture vocabulary activity	
		Elaborate	Teacher Choice	
		Evaluate	Claim-Evidence Reasoning Open-ended Response Multiple choice Assessment	
		Flex/ Response to Data	2 days *Given for extra time for a previous lesson and intervention in response to assessments/ enrichment.	
		Total	7 days	
Scope	Standards	Activities	Suggested Pacing	Notes
Conservation of Mass	7.PS1.4	Engage	Accessing Prior Knowledge Scope Phenomenon	*Activities in blue are required
		Explore	Explore 1: Activity - Keeping the Balance Explore 2: Scientific Investigation - Closing in on Reactions Explore 3: Engineering Solution - Speed Reactions	

		Explain	Picture vocabulary Linking Literacy Picture vocabulary activity	
		Elaborate	Teacher Choice	
		Evaluate	Claim-Evidence Reasoning Open-ended Response Multiple choice Assessment	
		Flex/ Response to Data	2 days *Given for extra time for a previous lesson and intervention in response to assessments/ enrichment.	
		Total	8 days	
Scope	Standards	Activities	Suggested Pacing	Notes
Particle Motion, and Arrangement	7.PS1.3	Engage	Accessing Prior Knowledge Scope Phenomenon	*Activities in blue are required
		Explore	Explore 1: Activity - Changes in State Explore 2: Scientific Investigation - Carbon Dioxide Ice vs. Water Ice Explore 3: Activity - Changes with Pressure Explore 4: Research - Modeling Change of State	
		Explain	Picture vocabulary Linking Literacy Picture vocabulary activity	
		Elaborate	Teacher Choice	
		Evaluate	Claim-Evidence Reasoning Open-ended Response Multiple choice Assessment	
		Flex/ Response to Data	2 days *Given for extra time for a previous lesson and intervention in response to assessments/ enrichment.	

		Total	7 days	
Scope	Standards	Activities	Suggested Pacing	Notes
Energy in Chemical Reactions	7.PS3.1	Engage	Accessing Prior Knowledge Scope Phenomenon	*Activities in blue are required
		Explore	Explore 1: Activity - Endothermic and Exothermic Reactions Explore 2: Engineering Solution - Portable Heater	
		Explain	Picture vocabulary Linking Literacy Picture vocabulary activity	
		Elaborate	Teacher Choice	
		Evaluate	Claim-Evidence Reasoning Open-ended Response Multiple choice Assessment	
		Flex/ Response to Data	1 day *Given for extra time for a previous lesson and intervention in response to assessments/ enrichment.	
		Total	8 days	
Scope	Standards	Activities	Suggested Pacing	Notes
Anatomy of a Cell	7.LS1.1	Engage	Accessing Prior Knowledge Scope Phenomenon	*Activities in blue are required. Predicted number of days are based on what is blue only. *Running short on time consider cutting the elaborate or shortening activities within the Explain. For example: the number of turns or examples can
		Explore	Explore 1: Activity - Functions of a Cell Explore 2: Activity - Cell Organelle Scavenger Hunt Explore 3: Scientific Investigation - Plant Cells vs. Animal Cells	
		Explain	Picture vocabulary Linking Literacy Picture vocabulary activity	
		Elaborate	Teacher Choice	

		Evaluate	Claim-Evidence Reasoning Open-ended Response Multiple choice Assessment	be shortened. * To modify the scavenger hunt have students guess at the location and teacher can confirm and give them the card rather than allowing students to roam the school * Picture vocabulary can be posted around the room prior to the start of lesson. But all vocabulary is addressed in the linking literacy.
		Flex/ Response to Data	3 days *Given for extra time for a previous lesson and intervention in response to assessments/ enrichment.	
		Total	8 days	

2 flex days for End of Quarter

Quarter 2

Scope	Standards	Activities	Suggested Pacing	Notes
Structure of Cells	7.LS1.2	Engage	Accessing Prior Knowledge Scope Phenomenon	*Activities in blue are required *Explore 2- shorten this activity by giving students fewer cards to sort
		Explore	Explore 1: Activity - Prokaryotic and Eukaryotic Cells Explore 2: Activity - Domains and Kingdoms Explore 3: Activity - Comparing Cells from Different Kingdoms	
		Explain	Picture vocabulary Linking Literacy Picture vocabulary activity	
		Elaborate	Teacher Choice	
		Evaluate	Claim-Evidence Reasoning Open-ended Response Multiple choice Assessment	

		Flex/ Response to Data	3 days *Given for extra time for a previous lesson and intervention in response to assessments/ enrichment.	
		Total	9 days	
Scope	Standards	Activities	Suggested Pacing	Notes
Cellular Respiration	7.LS1.7 7.PS3.2	Engage	Accessing Prior Knowledge Scope Phenomenon	*Activities in blue are required *Explore 1 can be done as a demonstration
		Explore	Explore 1: Activity - Cellular Respiration Explore 2: Activity - Modeling Cellular Respiration	
		Explain	Picture vocabulary Linking Literacy Picture vocabulary activity	
		Elaborate	Teacher Choice	
		Evaluate	Claim-Evidence Reasoning Open-ended Response Multiple choice Assessment	
		Flex/ Response to Data	2 days *Given for extra time for a previous lesson and intervention in response to assessments/ enrichment.	
		Total	7 days	
Scope	Standards	Activities	Suggested Pacing	Notes
Introduction to Photosynthesis	7.LS1.7 7.LS2.1	Engage	Accessing Prior Knowledge Scope Phenomenon	*Activities in blue are required
		Explore	Explore 1: Activity - Modeling Photosynthesis Explore 2: Scientific Investigation - The Importance of Light Explore 3: Engineering Solution - Build a Terrarium Explore 4: PBL - Lunar Greenhouse	

		Explain	Picture vocabulary Linking Literacy Picture vocabulary activity	
		Elaborate	Teacher Choice	
		Evaluate	Claim-Evidence Reasoning Open-ended Response Multiple choice Assessment	
		Flex/ Response to Data	2 days *Given for extra time for a previous lesson and intervention in response to assessments/ enrichment.	
		Total	10 days	
Scope	Standards	Activities	Suggested Pacing	Notes
Bioenergetics	7.LS1.7	Engage	Accessing Prior Knowledge Scope Phenomenon	*Activities in blue are required *The explore is optional based on supplies. An alternative is to complete Explore 1 using the simulated data provided by the answer key. Students still respond to questions from the lab.
		Explore	Explore 1: Scientific Investigation - The Great Snail Race Explore 2: Engineering Solution - Energy Alive!	
		Explain	Picture vocabulary Linking Literacy Picture vocabulary activity	
		Elaborate	Teacher Choice	
		Evaluate	Claim-Evidence Reasoning Open-ended Response Multiple choice Assessment	
		Flex/ Response to Data	2 days *Given for extra time for a previous lesson and intervention in response to assessments/ enrichment.	
		Total	7 days	
Scope	Standards	Activities	Suggested Pacing	Notes
Bodies and Systems	7.LS1.3	Engage	Accessing Prior Knowledge Scope Phenomenon	*Activities in blue are required

		Explore	Explore 1: Activity - Name That System Explore 2: Activity - Levels of Organization Explore 3: Scientific Investigation - System Interactions	
		Explain	Picture vocabulary Linking Literacy Picture vocabulary activity	
		Elaborate	Teacher Choice	
		Evaluate	Claim-Evidence Reasoning Open-ended Response Multiple choice Assessment	
		Flex/ Response to Data	3 days *Given for extra time for a previous lesson and intervention in response to assessments/ enrichment.	
		Total	9 days	
1 Flex Day at end of Quarter 2				
Quarter 3				
Scope	Standards	Activities	Suggested Pacing	Notes
Factors Influencing Growth	7.LS1.4	Engage	Accessing Prior Knowledge Scope Phenomenon	*Activities in blue are required
		Explore	Explore 1: Activity - What Are the Chances? Explore 2: Research - Growth of the Fittest	
		Explain	Picture vocabulary Linking Literacy Picture vocabulary activity	
		Elaborate	Teacher Choice	
		Evaluate	Claim-Evidence Reasoning Open-ended Response	

			Multiple choice Assessment	
		Flex/ Response to Data	3 days *Given for extra time for a previous lesson and intervention in response to assessments/ enrichment.	
		Total	8 days	
Scope	Standards	Activities	Suggested Pacing	Notes
Sensory Receptors	7.LS1.5	Engage	Accessing Prior Knowledge Scope Phenomenon	*Activities in blue are required *The traditional senses is strongly suggested but not required. Consider altering based on available materials. * Scents and memory- shorten by altering number of scents students are exposed to
		Explore	Explore 1: Activity - The Traditional Senses Explore 2: Activity - Scents and Memory Explore 3: Research - How Do We Remember?	
		Explain	Picture vocabulary Linking Literacy Picture vocabulary activity	
		Elaborate	Teacher Choice	
		Evaluate	Claim-Evidence Reasoning Open-ended Response Multiple choice Assessment	
		Flex/ Response to Data	3 days *Given for extra time for a previous lesson and intervention in response to assessments/ enrichment.	
		Total	8 days	
Scope	Standards	Activities	Suggested Pacing	Notes
Genes and Proteins	7.LS3.1	Engage	Accessing Prior Knowledge Scope Phenomenon	*Activities in blue are required
		Explore	Explore 1: Activity - Chromosomes and Genes Explore 2: Research - Genes and Proteins	

		Explain	Picture vocabulary Linking Literacy Picture vocabulary activity	
		Elaborate	Teacher Choice	
		Evaluate	Claim-Evidence Reasoning Open-ended Response Multiple choice Assessment	
		Flex/ Response to Data	2 days *Given for extra time for a previous lesson and intervention in response to assessments/ enrichment.	
		Total	7 days	
Scope	Standards	Activities	Suggested Pacing	Notes
Mutations	7.LS3.2	Engage	Accessing Prior Knowledge Scope Phenomenon	*Activities in blue are required
		Explore	Explore 1: Activity - Rearranging Proteins Explore 2: Activity - Modeling Mutations Explore 3: Engineering Solution - Predicting Mutations	
		Explain	Picture vocabulary Linking Literacy Picture vocabulary activity	
		Elaborate	Teacher Choice	
		Evaluate	Claim-Evidence Reasoning Open-ended Response Multiple choice Assessment	
		Flex/ Response to Data	2 days *Given for extra time for a previous lesson and intervention in response to assessments/ enrichment.	

		Total	7 days	
Scope	Standards	Activities	Suggested Pacing	Notes
Genetics and Reproduction	7.LS1.6 7.LS3.3	Engage	Accessing Prior Knowledge Scope Phenomenon	*Activities in blue are required
		Explore	Explore 1: Activity - Delicious Genetics Explore 2: Activity - Monster Genetics	
		Explain	Picture vocabulary Linking Literacy Picture vocabulary activity	
		Elaborate	Teacher Choice	
		Evaluate	Claim-Evidence Reasoning Open-ended Response Multiple choice Assessment	
		Flex/ Response to Data	3 days *Given for extra time for a previous lesson and intervention in response to assessments/ enrichment.	
		Total	10 days	
Scope	Standards	Activities	Suggested Pacing	Notes
Biomaterials	7.ETS1.1	Engage	Accessing Prior Knowledge Scope Phenomenon	*Activities in blue are required * Teacher choice for Explore 1 or 2. Both do not need to be completed.
		Explore	Explore 1: PBL OR Explore 2: Engineering Solution - Trojan the Bulldog	
		Explain	Picture vocabulary Linking Literacy Picture vocabulary activity	
		Elaborate	Teacher Choice	
		Evaluate	Claim-Evidence Reasoning Open-ended Response Multiple choice Assessment	
		Flex/ Response to Data	2 days	

			*Given for extra time for a previous lesson and intervention in response to assessments/ enrichment.	
		Total	7 days	
Quarter 4				
Flex Days	n/a		Wrap up Scope prior to Spring Break (3 to 4 days)	
Response to data and TCAP PREP	n/a		Use benchmark and classroom assessment data to: Identify areas of need to review Determine small groups and students to work with	
After TCAP			Choose missed explore and elaborate activities prior to TCAP. Consider some of the PBLs or engineering design challenges	