

Check out the table below for more detailed information about the units we will be covering.

Unit	Learning Targets and Timelines	Unit Description	Common Lab Experiences	Formative/Summative Assessments and Study Resources
Lab Safety Contract			- Lab Safety Contract Google Form Permission Slip - Lab Safety Rules and Guidelines	
Forces and Motion hi	Forces and Motion Learning Targets	- Apply Newton's 3 Laws to explain and predict phenomena. - Utilize the engineering design process to develop solutions to problems.	- Color Me Pink - A Momentous Propulsion Lab - Puffmobile Lab - Marshmallow Shooter Lab - Newty's Lab Stations - All New Tons of Fun Lab Stations - Bottle Rocket Design Challenge	Content Summative (Multiple Choice, No Resources Permitted) Newton's Cars Performance Summative (Lab Based, Resources Permitted) - Variables/Testable Questions - Graphing Data in Google Sheets - Diagrams as Models - Claim (Relationship Statements) and Text Evidence
	4 - 6 Weeks			

				<u>Summative Study Resources</u>
Waves	<u>Waves Learning Targets</u> 	- Identify the differences between longitudinal and transverse waves. - Develop models that shows how waves can be reflected, transmitted and absorbed. - Explain the relationships between various wave properties (ex. Frequency, wavelength, amplitude, etc.) - Trace the path of light between two transparent medium (refraction).	- Slinky Wave Models - Intro to Waves Unnotes Labs - Behavior of Waves Unnotes Labs - Singing Glasses Lab - Mystery Box Activity - Behavior of Wave Labs - Refraction Labs - CER Models (Slinky's, Tuning Forks, Whorly Tubes, etc)	<i>Content Summative (Multiple Choice, No Resources Permitted)</i> <i>Telescope and Graphing Performance Summative (Lab Based, Resources Permitted)</i> - Claim, Evidence, Reasoning (CER) - Graphing Wave Properties <u>Waves Study Resources</u>
	3 - 5 Weeks			
Chemistry	<u>Chemistry Learning Targets</u>	- Develop models of atoms and simple molecules. - Analyze the changes in the properties of matter to determine if a chemical or physical reaction has occurred. - Predict and describe how thermal energy affects the motion of molecules. - Describe how mass is conserved in physical and chemical reactions.	<i>Marshmallow Molecules Activity</i> <i>Crack That Marble Lab Series</i> <i>Liquid Molecular Lab Series</i> <i>S'Mores Lab</i> <i>Polymers Lab</i> <i>Ice Cream Lab</i> <i>Chemical/Physical Changes Lab Rotation</i> <i>Move That Mustard Lab Rotation</i> <i>Once You Pop Lab Rotation</i> <i>Household pHun Lab</i> <i>Acid/Base Labs</i> <i>Chemical Reactions Demos (Elephant's Toothpaste, etc)</i>	<i>Content Summative (Multiple Choice, No Resources Permitted)</i> <i>Blow It Up With Butane Performance Summative (Lab Based, Resources Permitted)</i> - ABCDE Paragraphs - Ladder of Discourse - Student Led Discussions <u>Chemistry Study Resources</u>
	10 - 12 Weeks			

Cells	Cells Learning Targets	• Provide evidence that living things are made of cells and that there are many different types of cells.	• <i>If Cells Could Talk (Cell Theory)</i> • <i>Rap Battle (Unicellular vs Multi Cellular)</i> • <i>Cell Theory Breakout EDU</i> • <i>Microscope Mania Lab</i> • <i>Cell City Project</i> • <i>Incredible Edible Cell</i> • <i>Insane in the Membrane Lab</i> • <i>Plants Store Food Investigation</i> • <i>Membrane Mania Models</i> • <i>Do Plants Breathe Lab</i> • <i>Radical Radish Lab</i> • <i>Texting on the Celly Lab</i> • <i>Eggsellent Eggsperiment Lab</i>	Content Summative (Multiple Choice, No Resources Permitted) Model of a Cell Performance Summative (Lab Based, Resources Permitted) - Double Bubble (Evaluating Models) - Ladder of Discourse Cells Study Resources
	8 - 10 Weeks	• Describe ways the parts of a cell contribute to the function of a cell. • Provide evidence how the body is a system of interacting subsystems composed of groups of cells. • Explain the role of photosynthesis in the cycling of matter and energy in organisms.		
Weather	Weather Learning Targets	• Explain how the interactions of air masses result in changes in weather systems. • Describe that the cycling of water through the earth is driven by energy and gravity. • Describe how the uneven heating of the earth results in regional climate patterns. • Design solutions for minimizing human impact on the environment.	• <i>Heat Transfer Labs</i> • <i>Do the Dew Lab</i> • <i>All Bottled Up Lab</i> • <i>Air Pressure Labs</i> • <i>Weather Forecasting Activity</i> • <i>Ocean Currents Breakout EDU</i>	Content Summative (Multiple Choice, No Resources Permitted) Weather Broadcast Performance Summative (Lab Based, Resources Permitted) - Create a Weather Map - Analyzing data/Using Data as evidence
	3 - 5 Weeks			
Science and Engineering Practices and Crosscutting Concepts	<i>Embedded throughout each unit</i>	• Throughout each unit, students will learn how to think like scientists by learning about the "Crosscutting Concepts."	<i>Utilized in all labs and activities</i>	<i>Assessed in performance summatives</i>

		Embedded throughout each unit, students will learn how to engage in the actions of a scientist (ex. Analyzing data, Modeling, Engaging in argument from evidence, Designing investigations, etc)		
Reproductive Health	Curriculum and all used resources are approved by the SEAB	<i>Lesson 1: Animal Reproduction</i> <i>Lesson 2: Human Reproduction</i> <i>Lesson 3: Growth and Development</i>	Permission Slip SAS Reproductive Health Curriculum Overview	<i>There is no Summative Assessment for this unit.</i>