

Sand Springs Public Schools  
9<sup>th</sup> Grade Physical Science Curriculum Sequence

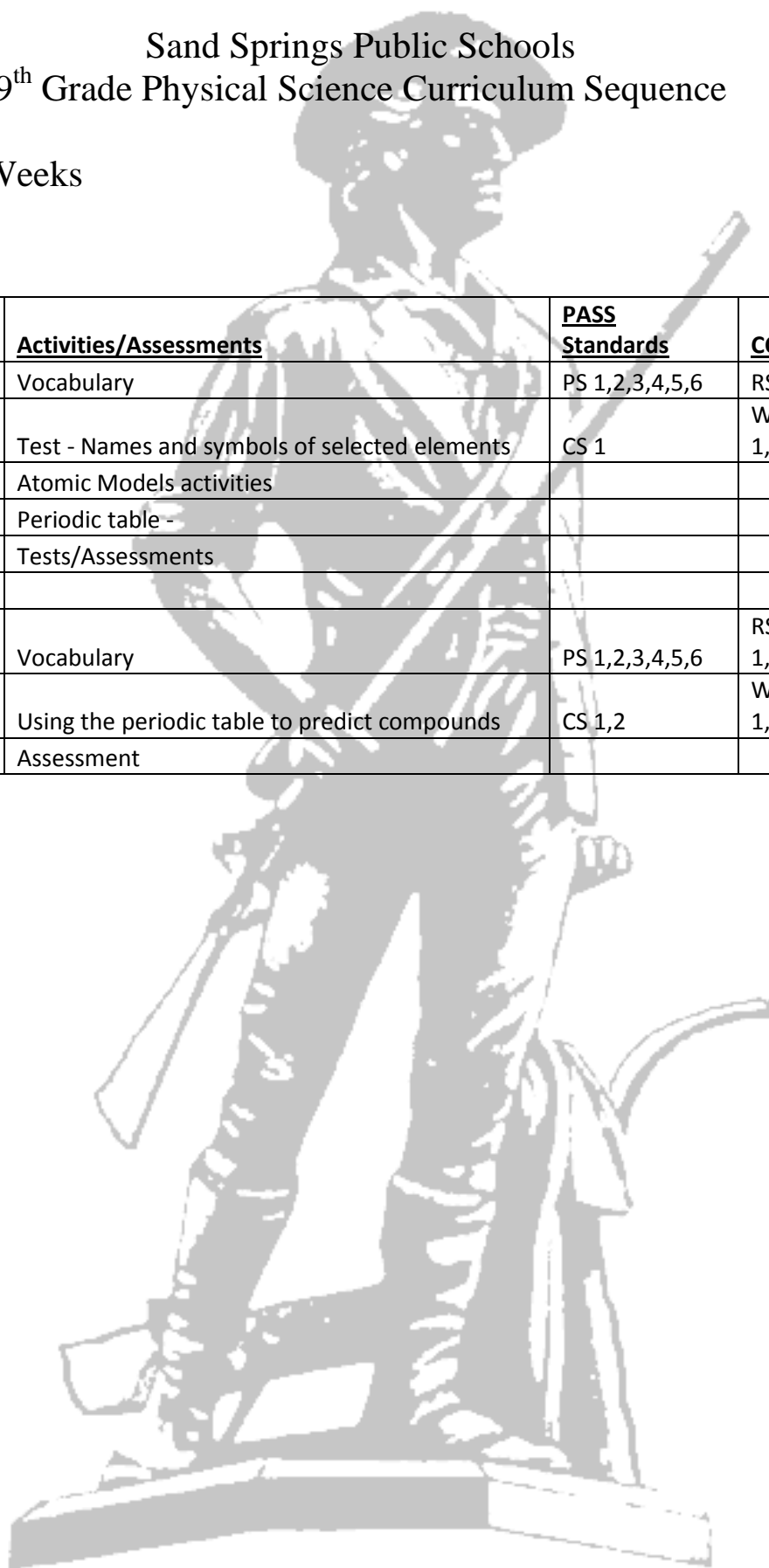
1<sup>st</sup> Six Weeks

<u>Topic Covered</u>	<u>Activities/Assessments</u>	<u>PASS Standards</u>	<u>CCSS</u>
Review	Vocabulary	PS 1,2,3,4,5,6	RS 2,4,5,6,wt10
lab safety	Lab Safety Test-80% minimum score required		WS 1,2,4,5,9,10
measurements	SI Measurements - Lab		
unit conversions	Explanation and Practice Problems		
scientific method	Discussions		
	Test/Assessment		
Introduction	Vocabulary	PS 1,2,3,4,5,6	RS wt1,2,4,5,6,7,9,wt10
What we study	Fields of study		WS 1,2,4,wt8,9,10
How we study	Scientific Method		
	Graphing		
	Test/Assessment -		
What is Matter?	Vocabulary	PS 1,2,3,4,5,6	RS 1,2,3,4,5,6,8,9,wt10
Describing matter	Phases and Changes - with lab	CS 1	WS 1,2,4,5,7,wt8,9,10
	Physical and Chemical Properties		
	Solutions		
	Gas Laws		
	Test/Assessment		

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2nd Six Weeks

<u>Topics Covered</u>	<u>Activities/Assessments</u>	<u>PASS Standards</u>	<u>CCSS</u>
What are Elements?	Vocabulary	PS 1,2,3,4,5,6	RS 1,2,3,4,5,8,wt10
	Test - Names and symbols of selected elements	CS 1	WS 1,2,4,5,6,wt8,9,10
	Atomic Models activities		
	Periodic table -		
	Tests/Assessments		
What are Compounds	Vocabulary	PS 1,2,3,4,5,6	RS 1,2,3,4,5,6,7,8,9,wt10
Introduction	Using the periodic table to predict compounds	CS 1,2	WS 1,2,4,5,6,7,wt8,9,10
	Assessment		

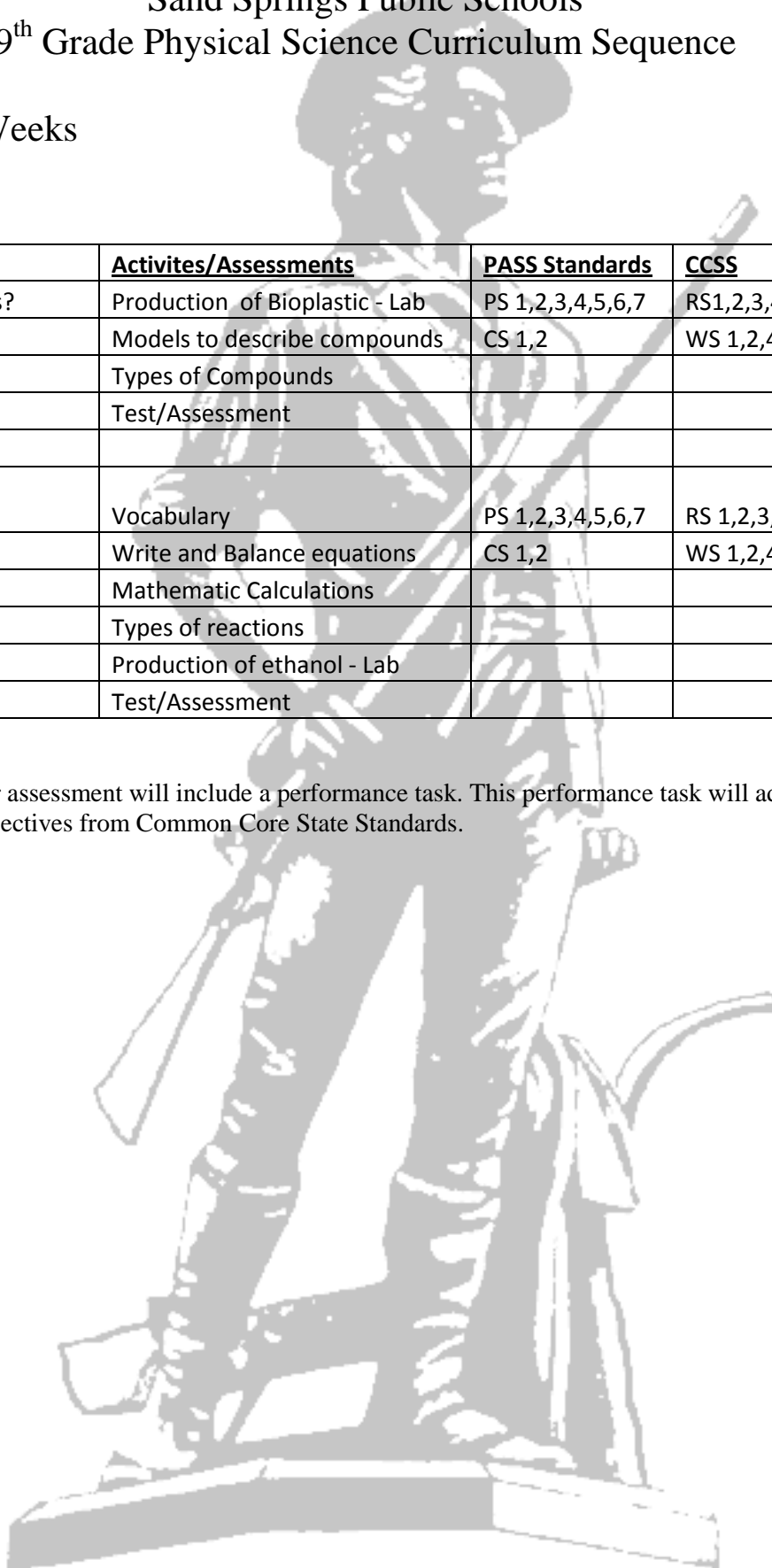


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3rd Six Weeks

<u>Topics Covered</u>	<u>Activites/Assessments</u>	<u>PASS Standards</u>	<u>CCSS</u>
What are Compounds?	Production of Bioplastic - Lab	PS 1,2,3,4,5,6,7	RS1,2,3,4,5,6,7,8,9,wt10
	Models to describe compounds	CS 1,2	WS 1,2,4,5,6,7,wt8,9,10
	Types of Compounds		
	Test/Assessment		
What are Chemical Reactions?	Vocabulary	PS 1,2,3,4,5,6,7	RS 1,2,3,4,5,7,8,9,wt10
	Write and Balance equations	CS 1,2	WS 1,2,4,5,6,7,wt8,9,10
	Mathematic Calculations		
	Types of reactions		
	Production of ethanol - Lab		
	Test/Assessment		

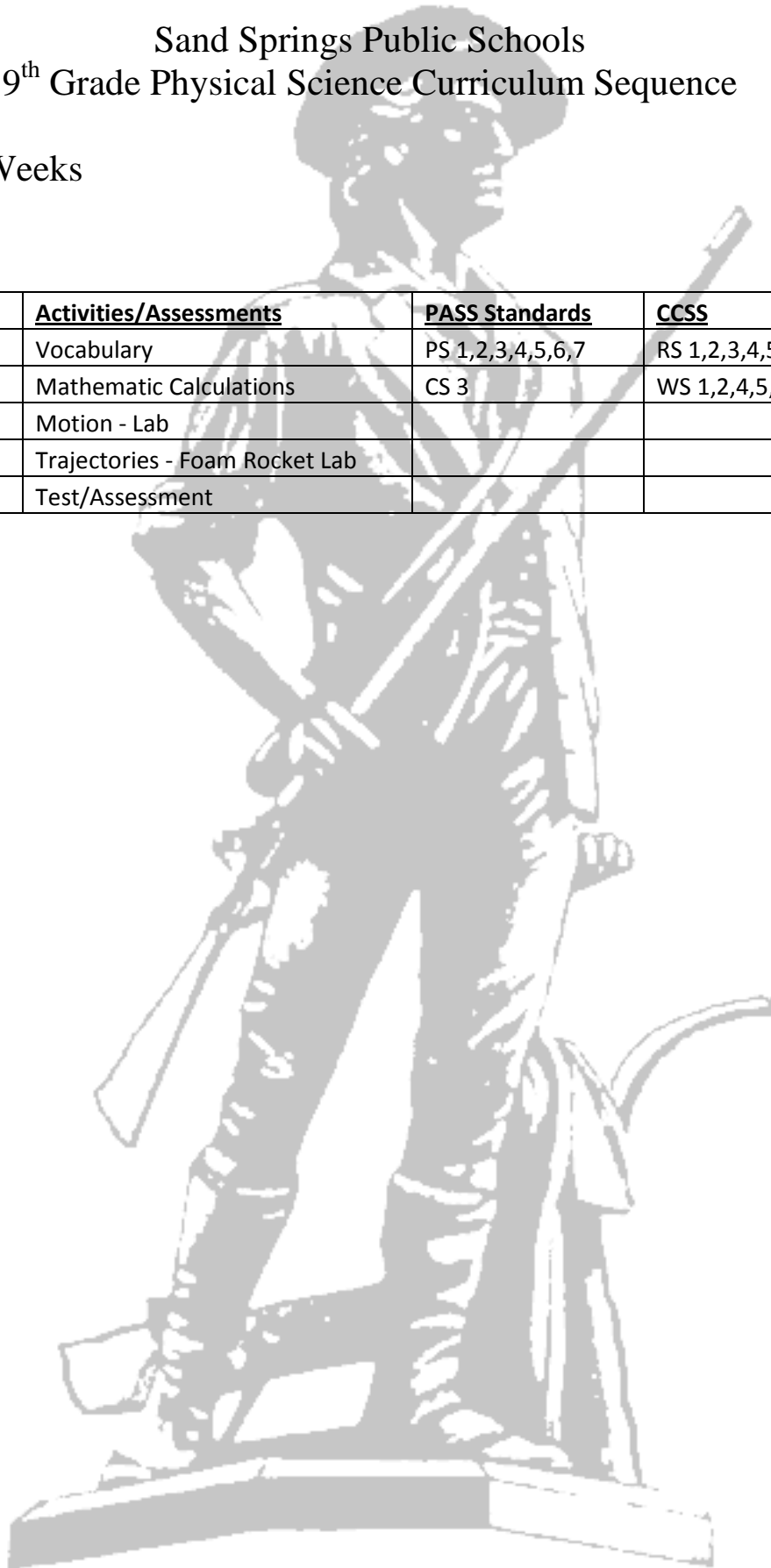
First semester assessment will include a performance task. This performance task will address remaining objectives from Common Core State Standards.



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4th Six Weeks

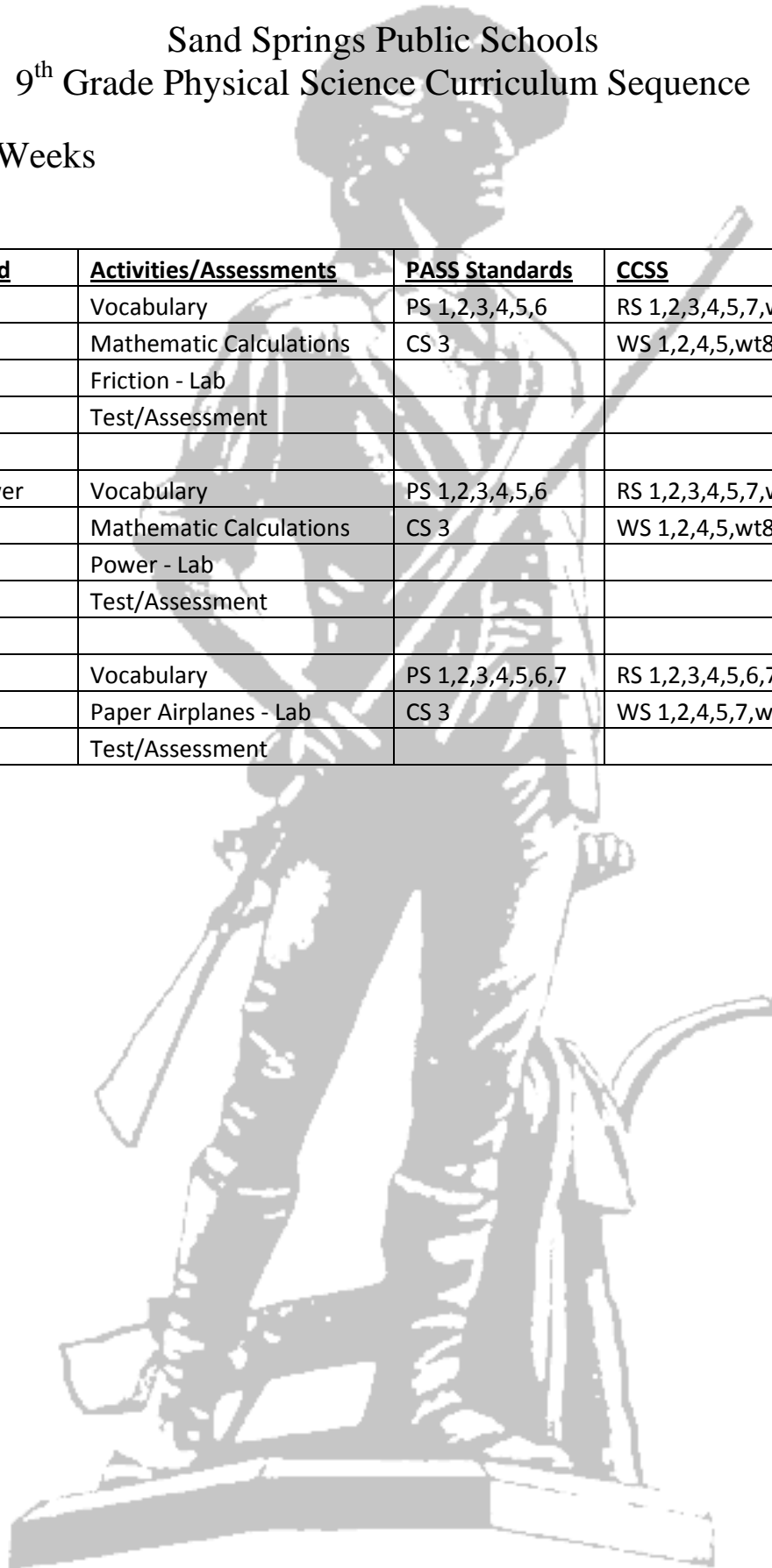
<u>Topic Covered</u>	<u>Activities/Assessments</u>	<u>PASS Standards</u>	<u>CCSS</u>
Motion	Vocabulary	PS 1,2,3,4,5,6,7	RS 1,2,3,4,5,6,7,8,wt10
	Mathematic Calculations	CS 3	WS 1,2,4,5,7,wt8,9,10
	Motion - Lab		
	Trajectories - Foam Rocket Lab		
	Test/Assessment		



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5th Six Weeks

<u>Topics Covered</u>	<u>Activities/Assessments</u>	<u>PASS Standards</u>	<u>CCSS</u>
Forces	Vocabulary	PS 1,2,3,4,5,6	RS 1,2,3,4,5,7,wt10
	Mathematic Calculations	CS 3	WS 1,2,4,5,wt8,9,10
	Friction - Lab		
	Test/Assessment		
Work and Power	Vocabulary	PS 1,2,3,4,5,6	RS 1,2,3,4,5,7,wt10
	Mathematic Calculations	CS 3	WS 1,2,4,5,wt8,10
	Power - Lab		
	Test/Assessment		
Aeronautics	Vocabulary	PS 1,2,3,4,5,6,7	RS 1,2,3,4,5,6,7,8,9,wt10
	Paper Airplanes - Lab	CS 3	WS 1,2,4,5,7,wt8,9,10
	Test/Assessment		



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6th Six Weeks

<u>Topics Covered</u>	<u>Activities/Assessments</u>	<u>PASS Standards</u>	<u>CCSS</u>
Energy	Vocabulary	PS 1,2,3,4,5,6,7	RS 1,2,3,4,5,6,7,8,9,wt10
Types and Uses	Mathematic Calculations	CS 3,4	WS 1,2,4,5,6,wt8,10
Energy Conversions	Roller Coaster - Lab		
	Test/Assessment		
Waves	Vocabulary	PS 1,2,3,4,5,6	RS 1,2,3,4,5,8,9,wt10
Types and Characteristics	Mathematic Calculations	CS 3,4	WS 1,2,4,5,wt8,10
Interactions of waves	Waves - Lab		
	Light - Lab		
	Test/Assessment		
Electricity and Magnetism	Vocabulary	PS 1,2,3,4,5,6	RS 1,2,3,4,5,8,wt10
Types of currents	Mathematic calculations	CS 3,4	WS 1,2,4,5,wt8,10
Types of circuits	Series and Parallel circuits - Lab		
How magnets work	Test/Assessment		

Students will participate in yearlong activities. These activities will be determined by each teacher and will be awarded grades in each six week period.

Students will take notes in class and at home. Students will have homework assignments, lab activities, and projects to complete. Students will participate in class discussions as well as complete individual and group projects. This list is not meant to be all-inclusive. Students should expect to do more than is listed here. Activities may be adjusted as appropriate for each class and time allowed.