

	<b>Unit and Topics</b>	<b>Number of Instructional Days and Approximate Schedule</b>	<b>NJSLS-Science Standards</b>	<b>Marking Period</b>
<b>1</b>	<b>Lab Safety</b>  <b>One-Dimensional Linear Motion</b> <ul style="list-style-type: none"> <li>● Constant Velocity</li> <li>● Constant Acceleration</li> </ul> (including graphical representations, not including motion on angled ramps)	~20 (Mid-September to Mid-October)	HS-PS2-1	1
<b>2</b>	<b>Forces in One Dimension</b> <ul style="list-style-type: none"> <li>● Forces</li> <li>● Newton’s Laws of Motion</li> <li>● Balanced and Unbalanced Forces</li> </ul> (not including quantitative analysis of angled forces)	~20 (Mid-October and November)	HS-PS2-1	1
<b>3</b>	<b>Two-Dimensional Motion, Universal Gravitation</b> <ul style="list-style-type: none"> <li>● Projectile Motion (horizontally shot projectiles only, not including quantitative angled projectiles)</li> <li>● Circular Motion (motion in horizontal plane, only highest and lowest points in a vertical plane)</li> <li>● Universal Gravitation</li> </ul>	~20 (December)	HS-PS2-1 HS-PS2-4	2
<b>4</b>	<b>Impulse, Momentum</b> <ul style="list-style-type: none"> <li>● Momentum, Impulse</li> <li>● Conservation of Linear Momentum</li> </ul> (quantitative analysis in one dimension only)	~20 (January)	HS-PS2-1 HS-PS2-2 HS-PS2-3	2
<b>5</b>	<b>Work and Energy</b> <ul style="list-style-type: none"> <li>● Work</li> </ul>	~20 (February)	HS-PS3-1 HS-PS3-2	3

	<ul style="list-style-type: none"> <li>● Energy</li> <li>● Law of Energy Conservation</li> <li>● Mechanical Power</li> </ul>		HS-PS3-3	
6	<b>Vibrational Motion</b> <ul style="list-style-type: none"> <li>● Vibrational Motion (horizontally vibrating spring-mass system, pendulum)</li> <li>● Resonance (qualitative)</li> </ul>	~20 (March)	HS-PS2-1 HS-PS3-1	3
7	<b>Waves</b> <ul style="list-style-type: none"> <li>● Mechanical Pulses and Waves</li> <li>● Wave Superposition</li> <li>● Standing Wave</li> </ul>	~15 (April)	HS-PS4-1 HS-PS4-2 HS-PS4-3	4
8	<b>Electrostatics</b> <ul style="list-style-type: none"> <li>● Law of Conservation of Electric charge</li> </ul> <b>DC Circuits</b> <ul style="list-style-type: none"> <li>● Current, Potential Difference, Resistance</li> <li>● Ohm's Law</li> </ul>	~30 (May to Mid-June)	HS-PS2-5 HS-PS3-1	4