

	Unit and Topics	Number of Instructional Days and Approximate 2020-2021 Schedule	NJSLS-Science Standards	Marking Period
1	Lab Safety One-Dimensional Linear Motion <ul style="list-style-type: none"> • Constant Velocity • Constant Acceleration (including graphical representations, not including motion on angled ramps)	~20 (Mid-September to Mid-October)	HS-PS2-1	1
2	Forces in One Dimension <ul style="list-style-type: none"> • Forces • Newton's Laws of Motion • Balanced and Unbalanced Forces (not including quantitative analysis of angled forces)	~20 (Mid-October and November)	HS-PS2-1	1
3	Two-Dimensional Motion, Universal Gravitation <ul style="list-style-type: none"> • Projectile Motion (horizontally shot projectiles only, not including quantitative angled projectiles) • Circular Motion (motion in horizontal plane, only highest and lowest points in a vertical plane) • Universal Gravitation 	~20 (December)	HS-PS2-1 HS-PS2-4	2
4	Impulse, Momentum <ul style="list-style-type: none"> • Momentum, Impulse • Conservation of Linear Momentum (quantitative analysis in one dimension only)	~20 (January)	HS-PS2-1 HS-PS2-2 HS-PS2-3	2
5	Work and Energy <ul style="list-style-type: none"> • Work • Energy • Law of Energy Conservation • Mechanical Power 	~20 (February)	HS-PS3-1 HS-PS3-2 HS-PS3-3	3
6	Vibrational Motion <ul style="list-style-type: none"> • Vibrational Motion (horizontally 	~20 (March)	HS-PS2-1 HS-PS3-1	3

	vibrating spring-mass system, pendulum) • Resonance (qualitative)			
7	Waves • Mechanical Pulses and Waves • Wave Superposition • Standing Wave • Wave nature of light (introduction to electromagnetic waves)	~15 (April)	HS-PS4-1 HS-PS4-2 HS-PS4-3	4
8	Electrostatics • Law of Conservation of Electric charge DC Circuits • Current, Potential Difference, Resistance • Ohm's Law for Series Circuit Electromagnetism Introduction • Qualitative investigations: magnetic force and field, induced field: right hand rules for field and force, induced current	~30 (May to Mid-June)	HS-PS2-5 HS-PS3-1	4