



WEEK	UNIT	TOPICS	GSE
1- 4 8/11 - 8/31 15 DAYS	UNIT 1: SET UP FOR SUCCESS	Science Skills: Graphing & Data Math Skills: Number & Units Literacy Skills: Vocab/Text Density/Buoyancy	SP 1c
Sept. 1 <sup>st</sup> & 2 <sup>nd</sup>		Benchmark 1	
5 - 8 9/16 - 9/28 17 DAYS	UNIT 2: MATTER, ENERGY & TIME	Base Units of Matter vs Energy Matter & Energy Interactions F(t) of speed, Velocity & Acceleration	SP 1 a,b,d
Sept. 29 <sup>th</sup> & 30 <sup>th</sup>		Benchmark 2	
10/3 - 11/2 18 DAYS	UNIT 3: MAY THE FORCE BE WITH YOU	Newton's Laws & Acceleration, Free Body Diagrams, calculating magnitude & vectors, Newton's Law of Gravitation	SP 2 a,b,c,d,e
Nov. 3 <sup>rd</sup> & 4 <sup>th</sup>		Benchmark 3	
11/7 - 12/7 18 DAYS	UNIT 4: SURFS UP....WAVES	Properties * Applications of Waves: Velocity, $\lambda$ , Hz, Doppler Effect, Amplitude, Snell's Law, Optical Ray Diagrams, etc...	SP 4 a,b,c,d,e
Dec. 8 <sup>th</sup> & 9 <sup>th</sup>		Benchmark 4	
Dec. 12 <sup>th</sup> – 16 <sup>th</sup>	<b>MID TERM PRESENTATION DUE</b>	Students will choose from a list of approved physics demos in which they will have to prepare a presentation (rubric & materials provided)	
WEEK	UNIT	TOPICS	GSE
1/3 - 1/25 17 DAYS	UNIT 5: MECHANICAL ENERGY & LINEAR MOMENTUM	Calculating kinetic energy, amount of work done by a force, rate of energy transfer, one dimensional momentum. Newton's 3 <sup>rd</sup> law and impulse. Inelastic and elastic collisions.	SP 3 a,b
Jan. 26 <sup>th</sup> & 27 <sup>th</sup>		Benchmark 5	
1/30 - 3/8 27 DAYS	UNIT 6: TWO DIMENSIONAL MOTION	The study of motion with two variables, specifically: Horizontal, Vertical, Angled projectiles, motion.	SP 1d
Mar. 9 <sup>th</sup> & 10 <sup>th</sup>		Benchmark 6	
3/14 - 3/29 12 DAYS	UNIT 7: ELECTRICAL & MAGNETIC FORCE	Electrostatic forces. Charge transfer by conduction, friction, induction. Ohm's Law. Electrical currents and Magnetic Fields.	SP 5 a,b,c,d,e
Mar. 30 <sup>th</sup> & 31 <sup>st</sup>		Benchmark 7	
4/10 - 5/3 18 DAYS	UNIT 8: NUCLEAR PHYSICS	Radioactive Decay (alpha, beta, gamma), Fission, Fusion, 1/2 Life	SP 6 a,b,c
May 4 <sup>th</sup> & 5 <sup>th</sup>		Benchmark 8	
5/8 - 5/19	CAPSTONE PRESENTATIONS		
5/322 - 5/26	Final Exam	50% Traditional Test 50% Capstone Presentation	All SP Standards

