

PRESCOTT UNIFIED SCHOOL DISTRICT
District Instructional Guide
Date Revised 9/22/2014

Grade Level: 9-12	Subject: Standard Physics	Time:	Core Text: I Would Love to Have One Worth Using.
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Time	Topic	Content (Nouns)	Skills (Verbs)	Standards	Assessments
17 Days	Kinematics	Motion Graphs Kinematic Word Problems Tracker Software Horizontal Launch Projectiles	Graph Analyze Interpret Calculate Explain Justify Compare and Contrast	s1c1 (labs) s1c2 (labs) s1c3 (analysis) s1c4 (communicate) s5c2 (Newton) s6c3 (space science) Lit: (11-12.RST.3) - lab directions (11-12.RST.8)- lab directions (11-12.RST.4)	Homework Formative Questioning Unit Test
9 Days	History of Science	Aristotle, Ptolemy, Descartes Inductive vs Deductive Reasoning Geocentric vs Heliocentric Galileo, Copernicus, Kepler	Analyze Interpret Explain Justify Compare and Contrast	s2c1 (history) s2c2 (NOS) Lit: (11-12.RST.1) (11-12.RST.2) (11-12.RST.4) (11-12.RST.6) (11-12.RST.7)	Homework Formative Questioning Unit Test

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				(11-12.RST.9) (11-12.RST.10)	
11	Newton's Laws	First and Second Law Free Body Diagrams Friction	Graph Analyze Interpret Calculate Explain Justify Compare and Contrast	s1c1 (labs) s1c2 (labs) s1c3 (analysis) s1c4 (communicate) s5c2 (Newton) Lit: (11-12.RST.9) (11-12.RST.3) - lab directions(11-12.RST.8) - lab directions	Homework Formative Questioning Unit Test

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12	Energy	Conservation of Energy Springs	Graph Analyze Interpret Calculate Explain Justify Compare and Contrast	s1c1 (labs) s1c2 (labs) s1c3 (analysis) s1c4 (communicate) s2c2 (tech vs enviro trade offs) s5c3 (thermo) Lit: (11-12.RST.1) (11-12.RST.2) (11-12.RST.4) (11-12.RST.6) (11-12.RST.7) (11-12.RST.9) (11-12.RST.10) (11-12.RST.3) - lab directions (11-12.RST.8)- lab directions	Homework Formative Questioning Unit Test
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7	Momentum	Conservation of Momentum Impacts	Graph Analyze Interpret Calculate Explain Justify Compare and Contrast	s1c1 (labs) s1c2 (labs) s1c3 (analysis) s1c4 (communicate) s5c2 (Newton) Lit: (11-12.RST.3) - lab directions (11-12.RST.8)- lab directions	Homework Formative Questioning Unit Test
3	Vectors	Vector addition and decomposition	Analyze Interpret Calculate Explain Justify Compare and Contrast	s5c2 (Newton)	Homework Formative Questioning Unit Test
5	Angled Launch Projectiles	Kinematics with Vectors	Graph Analyze Interpret Calculate Explain Justify Compare and Contrast	s1c1 (labs) s1c2 (labs) s1c3 (analysis) s1c4 (communicate) s5c2 (Newton) Lit: (11-12.RST.3) - lab directions	Homework Formative Questioning Unit Test

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				(11-12.RST.8)- lab directions	
8	Dynamics with Vectors	Angled forces	Graph Analyze Interpret Calculate Explain Justify Compare and Contrast	s1c1 (labs) (11-12.RST.4) (11-12.RST.4) s1c2 (labs) s1c3 (analysis) s1c4 (communicate) s5c2 (Newton) Lit: (11-12.RST.3) - lab directions (11-12.RST.8)- lab directions	Homework Formative Questioning Unit Test
5	Circular Motion	Simple circular motion Universal Gravitation	Graph Analyze Interpret Calculate Explain Justify Compare and Contrast	s1c1 (labs) s1c2 (labs) s1c3 (analysis) s1c4 (communicate) s5c2 (Newton) Lit: (11-12.RST.3) - lab directions (11-12.RST.8)- lab directions	Homework Formative Questioning Unit Test

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	Review for Semester 1 Exam				
12	Nature of Science and Scientific Method	Falsifiability Hypothesis generating and testing Epistemology Hypothesis / Theory / Law	Graph Analyze Interpret Calculate Explain Justify Compare and Contrast	s1c1 (labs) s1c2 (labs) s1c3 (analysis) s1c4 (communicate) s2c1 (human endeavor) s2c2 (epistemology)	Homework Formative Questioning Unit Test
8	Fluid Statics	Pressure Hydraulics	Graph Analyze Interpret Calculate Explain Justify Compare and Contrast		Homework Formative Questioning Unit Test
7	Fluid Dynamics	Bernoulli's Law Law of Continuity	Graph Analyze Interpret Calculate Explain Justify Compare and Contrast	Lit: (11-12.RST.1) (11-12.RST.2) (11-12.RST.4) (11-12.RST.6) (11-12.RST.7) (11-12.RST.9) (11-12.RST.10)	Homework Formative Questioning Unit Test
12	Electricity and Magnetism	Electrostatics Magnetism	Graph Analyze	s5c1 (atoms) s5c2 (coulomb)	Homework Formative

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		Electromagnetism Induced Current Lenz's Law Circuits	Interpret Calculate Explain Justify Compare and Contrast	s5c5 (waves and circuits)	Questioning Unit Test
19	Waves, Sound, Light	Frequency, Amplitude, Wavelength Transverse / Longitudinal Frequency spectrum Interference Resonance Color mixing and vision	Graph Analyze Interpret Calculate Explain Justify Compare and Contrast	s5c5 (waves and circuits)	Homework Formative Questioning Unit Test
14	Quantum	Non-deterministic vs Chaotic Superposition Interference	Graph Analyze Interpret Calculate Explain Justify Compare and Contrast	s5c1 (atoms) s5c5 (waves and circuits) Lit: (11-12.RST.1) (11-12.RST.2) (11-12.RST.4) (11-12.RST.6) (11-12.RST.7) (11-12.RST.9) (11-12.RST.10)	Homework Formative Questioning Unit Test
12	Cosmology and Nuclear Reactions	Star life-cycle Big Bang Evidence Particle Physics	Graph Analyze Interpret	s6c3 (space science) s6c4 (cosmology)	Homework Formative Questioning

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		Nuclear Power	Calculate Explain Justify Compare and Contrast	s2c2 (tech vs enviro trade offs) s5c1 (atoms) Lit: (11-12.RST.1) (11-12.RST.2) (11-12.RST.4) (11-12.RST.6) (11-12.RST.7) (11-12.RST.9) (11-12.RST.10)	Unit Test
	Review for Semester 2 Exam				