

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

<b>Grade Level: 11-12</b>	<b>Subject: Standard Physics</b>	<b>Time:</b>	<b>Core Text: Glencoe Physics.</b>
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<b>Time</b>	<b>Topic</b>	<b>Content (Nouns)</b>	<b>Skills (Verbs)</b>	<b>Standards</b>	<b>Assessments</b>
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) (11-12.RST.9)	Homework Formative Questioning Unit Test

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				(11-12.RST.10)  Tech: S1C1PO1 (analyze), S1C4PO2 (original work) S2C1PO1,2 (communicate), S2C2PO1 (collaborate), S3C1PO1,2 (research), S3C2PO1,2,3,4,5 (research) S4C1PO1 (investigate), S4C2PO1,2 (investigate), S6C1PO2 (tech literacy), S6C4PO1 (transfer)	
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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  Tech: S1C1PO1 (analyze), S1C3PO1 (forecast), S1C4P)2 (original work) S2C1PO2 (communicate), S2C2PO1 (collaborate), S4C1PO1 (investigate), S6C1PO2 (tech literacy), S6C2PO1,2,3,7 (application), S6C3PO1 (online help), S6C4PO1 (transfer)	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  Tech: S1C1PO1 (analyze), S1C3PO1 (forecast), S1C4P)2 (original work) S2C1PO2 (communicate), S2C2PO1 (collaborate), S4C1PO1 (investigate), S6C1PO2 (tech	Homework Formative Questioning Unit Test
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				literacy), S6C2PO1,2,3,7 (application), S6C3PO1 (online help), S6C4PO1 (transfer)	
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  Tech: S1C1PO1 (analyze), S1C3PO1 (forecast), S1C4P)2 (original work) S2C1PO2 (communicate), S2C2PO1 (collaborate), S4C1PO1 (investigate), S6C1PO2 (tech literacy), S6C2PO1,2,3,7 (application), S6C3PO1	Homework Formative Questioning Unit Test

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				(online help), S6C4PO1 (transfer)	
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 (11-12.RST.8)- lab directions  Tech: S1C1PO1 (analyze), S1C3PO1 (forecast), S1C4P)2 (original work) S2C1PO2	Homework Formative Questioning Unit Test

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				(communicate), S2C2PO1 (collaborate), S4C1PO1 (investigate), S6C1PO2 (tech literacy), S6C2PO1,2,3,7 (application), S6C3PO1 (online help), S6C4PO1 (transfer)	
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  Tech: S1C1PO1 (analyze), S1C3PO1 (forecast), S1C4P)2 (original work) S2C1PO2	Homework Formative Questioning Unit Test

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				(communicate), S2C2PO1 (collaborate), S4C1PO1 (investigate), S6C1PO2 (tech literacy), S6C2PO1,2,3,7 (application), S6C3PO1 (online help), S6C4PO1 (transfer)	
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  Tech: S1C1PO1 (analyze), S1C3PO1 (forecast), S1C4P)2 (original work) S2C1PO2 (communicate), S2C2PO1 (collaborate), S4C1PO1 (investigate),	Homework Formative Questioning Unit Test



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				S6C1PO2 (tech literacy), S6C2PO1,2,3,7 (application), S6C3PO1 (online help), S6C4PO1 (transfer)	
	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) Tech: S1C1PO1 (analyze), S1C2PO1,2,3 (model), S1C3PO1 (forecast), S1C4PO1,2 (original work) S2C1PO2 (communicate), S2C2PO1 (collaborate), S3C1PO1,2 (info sources), S3C2PO1,2,3,4,5 (research), S4C1PO1 (investigate),	Homework Formative Questioning Unit Test

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				S4C2PO1,2 (investigate), S5C1PO5 (advertising), S6C4PO1 (transfer)	
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) Tech: S1C1PO1 (analyze), S1C3PO1 (forecast), S1C4P)2 (original work) S2C1PO2 (communicate), S2C2PO1 (collaborate), S4C1PO1 (investigate), S6C1PO2 (tech	Homework Formative Questioning Unit Test

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				literacy), S6C2PO1,2,3,7 (application), S6C3PO1 (online help), S6C4PO1 (transfer)	
12	Electricity and Magnetism	Electrostatics Magnetism Electromagnetism Induced Current Lenz's Law Circuits	Graph Analyze Interpret Calculate Explain Justify Compare and Contrast	s5c1 (atoms) s5c2 (coulomb) s5c5 (waves and circuits)  Tech: S1C1PO1 (analyze), S1C3PO1 (forecast), S1C4P)2 (original work) S2C1PO2 (communicate), S2C2PO1 (collaborate), S4C1PO1 (investigate), S6C1PO2 (tech literacy), S6C2PO1,2,3,7 (application), S6C3PO1 (online help), S6C4PO1 (transfer)	Homework Formative Questioning Unit Test
19	Waves, Sound, Light	Frequency, Amplitude, Wavelength Transverse / Longitudinal	Graph Analyze Interpret Calculate	s5c5 (waves and circuits)  Tech: S1C1PO1	Homework Formative Questioning Unit Test

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		Frequency spectrum Interference Resonance Color mixing and vision	Explain Justify Compare and Contrast	(analyze), S1C3PO1 (forecast), S1C4P)2 (original work) S2C1PO2 (communicate), S2C2PO1 (collaborate), S4C1PO1 (investigate), S6C1PO2 (tech literacy), S6C2PO1,2,3,7 (application), S6C4PO1 (transfer)	
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 Nuclear Power	Graph Analyze Interpret Calculate	s6c3 (space science) s6c4 (cosmology)  s2c2 (tech vs enviro	Homework Formative Questioning Unit Test

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			<p>Explain  Justify  Compare and Contrast</p>	<p>trade offs)  s5c1 (atoms)</p> <p>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)</p>	
	<p>Review for  Semester 2  Exam</p>				