

**Physics Science - Distance Learning  
Course Syllabus**

Week of	What you should do during the week	What you should turn in
Sept 8	Chapter 1 <input type="checkbox"/> Introduction <input type="checkbox"/> Section 1.1: Some History <input type="checkbox"/> Reading assignments: <i>Focus on Physical Science</i> , p. 6 - 13 <i>Hewitt's Conceptual Physical Science</i> , p. 13 - 16 <input type="checkbox"/> HW 1A  <input type="checkbox"/> Section 1.2: Distance, Time, and Average Speed <input type="checkbox"/> Reading assignments: <i>Hewitt's Conceptual Physical Science</i> , section 1.9 (p. 26 - 29) <input type="checkbox"/> HW 1B <input type="checkbox"/> Section 1.3: Reference Frames <input type="checkbox"/> HW 1C	HW 1A HW 1B HW 1C
Sept 14	<input type="checkbox"/> Section 1.4: Graphing Motion <input type="checkbox"/> Reading assignments: <i>Focus on Physical Science</i> , p. 15 - 17 <input type="checkbox"/> HW 1D <input type="checkbox"/> Section 1.5: Motion at Various Speeds <input type="checkbox"/> Reading assignments: <i>Focus on Physical Science</i> , p. 20 - 23 <input type="checkbox"/> Section 1.6: Converting Units of Speed <input type="checkbox"/> HW 1E	HW 1D HW 1E
Sept 21	<input type="checkbox"/> Section 1.7: Vectors <input type="checkbox"/> Section 1.8: Acceleration <input type="checkbox"/> Reading assignments: <i>Focus on Physical Science</i> , p. 26 - 30 <i>Hewitt's Conceptual Physical Science</i> , p. 13 - 16 <input type="checkbox"/> HW 1F <input type="checkbox"/> Chapter 1 Test	HW 1F Lab 1A Test on Chapter 1
Sept 28	Chapter 2 <input type="checkbox"/> Section 2.1: Force <input type="checkbox"/> Reading assignments: <i>Focus on Physical Science</i> , p. 36 - 41 <input type="checkbox"/> Lab: Measurement and Graphing Chapter 2 <input type="checkbox"/> Section 2.2: Mass and Inertia <input type="checkbox"/> Reading assignments: <i>Focus on Physical Science</i> , p. 40 - 41 <i>Hewitt's Conceptual Physical Science</i> , p. 17 - 18, 37 - 39 <input type="checkbox"/> Section 2.3: Newton's 2 <sup>nd</sup> Law <input type="checkbox"/> Reading assignments: <i>Focus on Physical Science</i> , p. 44 - 46 <i>Hewitt's Conceptual Physical Science</i> , p. 39 - 41 <input type="checkbox"/> HW 2A <input type="checkbox"/> HW 2B	HW 2A HW 2B

Oct 5	<input type="checkbox"/> Section 2.4: Motion and Force in Two Dimensions <input type="checkbox"/> Reading assignment: <i>Hewitt's Conceptual Physical Science</i> , p. 53 - 57  <input type="checkbox"/> Section 2.5: Friction <input type="checkbox"/> Reading assignment: <i>Focus on Physical Science</i> , p. 47 - 49	HW 2C HW 2D
Oct 12	<input type="checkbox"/> Section 2.6: Gravity <input type="checkbox"/> Reading assignments: <i>Focus on Physical Science</i> , p. 50 - 53, 62-64 <i>Hewitt's Conceptual Physical Science</i> , p. 111 - 123 <input type="checkbox"/> Section 2.7: Newton's 3 <sup>rd</sup> Law <input type="checkbox"/> Reading assignments: <i>Focus on Physical Science</i> , p. 56 - 58 <i>Hewitt's Conceptual Physical Science</i> , p. 47 - 50 <input type="checkbox"/> Lab Exercise <input type="checkbox"/> Chapter 2 Test	Test on Chapter 2
Oct 19	<input type="checkbox"/> Section 3.1: Pressure <input type="checkbox"/> Reading assignments: <i>Focus on Physical Science</i> , p. 70 - 71 <i>Hewitt's Conceptual Physical Science</i> , p. 135 <input type="checkbox"/> HW 3A <input type="checkbox"/> Section 3.2: Fluids <input type="checkbox"/> Reading assignments: <i>Focus on Physical Science</i> , p. 72 - 75 <i>Hewitt's Conceptual Physical Science</i> , p. 136 - 137, 144 - 150	HW 3A
Oct 26	<input type="checkbox"/> Section 3.3: Fluid Pressure, Hydraulics <input type="checkbox"/> Reading assignments: <i>Focus on Physical Science</i> , p. 78 - 81 <input type="checkbox"/> Section 3.4: Floating and Sinking, Archimedes Principle <input type="checkbox"/> HW 3B <input type="checkbox"/> Reading assignments: <i>Focus on Physical Science</i> , p. 82 - 82, 86 - 88 <i>Hewitt's Conceptual Physical Science</i> , p. 138 - 143 <input type="checkbox"/> Section 3.5: Beroulli's Principle <input type="checkbox"/> Reading assignments: <i>Focus on Physical Science</i> , p. 89 - 92 <i>Hewitt's Conceptual Physical Science</i> , p. 150 - 154 <input type="checkbox"/> HW 3C <input type="checkbox"/> Chapter 3 Test	HW 3B HW 3C Lab 3A Test on Chapter 3
Nov 2	<input type="checkbox"/> Section 4.1: Introduction to Simple Machines <input type="checkbox"/> Section 4.2: Levers <input type="checkbox"/> HW 4A <input type="checkbox"/> Reading assignment: <i>Focus on Physical Science</i> , p. 113 - 114 <input type="checkbox"/> Section 4.3: Inclines <input type="checkbox"/> Reading assignment: <i>Focus on Physical Science</i> , p. 111 - 113 <input type="checkbox"/> Section 4.4: Wheel and Axle <input type="checkbox"/> Reading assignment: <i>Focus on Physical Science</i> , p. 116 - 118 <input type="checkbox"/> HW 4B	HW 4A HW 4B

Nov 9	<input type="checkbox"/> Section 4.5: Pulleys <input type="checkbox"/> Reading assignment: <i>Focus on Physical Science</i> , p. 118 - 119 <input type="checkbox"/> HW 4C <input type="checkbox"/> Section 4.6: Gears <input type="checkbox"/> Reading assignment: <i>Focus on Physical Science</i> , p. 120	HW 4C
Nov 16	<input type="checkbox"/> Section 4.7: Work and Efficiency <input type="checkbox"/> Reading assignment: <i>Focus on Physical Science</i> , p. 98 - 107 <input type="checkbox"/> HW 4D <input type="checkbox"/> Section 4.8: Simple Machines in the Human Body <input type="checkbox"/> Reading assignment: <i>Focus on Physical Science</i> , p. 124 - 126 <input type="checkbox"/> Chapter 4 Test	HW 4D Test on Chapter 4
Nov 23	Thanksgiving Break	
Nov 30	<input type="checkbox"/> Section 5.1: Temperature <input type="checkbox"/> Reading assignment: Hewitt's <i>Conceptual Physical Science</i> , p. 161 - 163 <input type="checkbox"/> Section 5.2: Heat <input type="checkbox"/> Reading assignment: Hewitt's <i>Conceptual Physical Science</i> , p. 163 - 169 <input type="checkbox"/> HW 5A <input type="checkbox"/> Section 5.3: The Equation for Heat Transfer <input type="checkbox"/> Reading assignment: Hewitt's <i>Conceptual Physical Science</i> , p. 161 - 163 <input type="checkbox"/> HW 5B <input type="checkbox"/> Section 5.4: Thermal Expansion <input type="checkbox"/> Reading assignment: Hewitt's <i>Conceptual Physical Science</i> , p. 171 - 175	HW 5A HW 5B
Dec 7	<input type="checkbox"/> Section 5.5: Transfer by Conduction, Convection, Radiation <input type="checkbox"/> Reading assignment: Hewitt's <i>Conceptual Physical Science</i> , p. 179 - 188 <input type="checkbox"/> Section 5.6 Change of Phase <input type="checkbox"/> Reading assignment: Hewitt's <i>Conceptual Physical Science</i> , p. 180 - 198 <input type="checkbox"/> Section 5.7: Phase Changes in Water <input type="checkbox"/> HW 5D <input type="checkbox"/> HW 5E <input type="checkbox"/> Chapter 5 Test	HW 5C HW 5D HW 5E Test on Chapter 5
Dec 14	First Semester Exam	Exam due Dec 18
Dec 18 - Jan 3	Christmas vacation	
Jan 4	<input type="checkbox"/> Section 6.1: Electric Charge <input type="checkbox"/> Reading assignment: Hewitt's <i>Conceptual Physical Science</i> , p. 203 - 207 <input type="checkbox"/> Section 6.2: Electric Current <input type="checkbox"/> Reading assignment: Hewitt's <i>Conceptual Physical Science</i> , p. 214 - 216 <input type="checkbox"/> HW 6A <input type="checkbox"/> Section 6.3: Voltage <input type="checkbox"/> Reading assignment: Hewitt's <i>Conceptual Physical Science</i> , p. 210 - 213	HW 6A

Jan 11	<input type="checkbox"/> Section 6.4: Ohm's Law <input type="checkbox"/> Reading assignment: Hewitt's <i>Conceptual Physical Science</i> , p. 217 - 220 <input type="checkbox"/> HW 6B <input type="checkbox"/> Section 6.5: Series and Parallel Circuits <input type="checkbox"/> Reading assignment: Hewitt's <i>Conceptual Physical Science</i> , p. 220 - 225 <input type="checkbox"/> Section 6.6: Magnets <input type="checkbox"/> Reading assignment: Hewitt's <i>Conceptual Physical Science</i> , p. 233 - 235 <i>Focus on Physical Science</i> , p. 336 - 338	HW 6B
Jan 18	<input type="checkbox"/> Section 6.7: Magnetic Fields and Magnetic Domains <input type="checkbox"/> Reading assignment: Hewitt's <i>Conceptual Physical Science</i> , p. 235 - 236 <i>Focus on Physical Science</i> , p. 339 - 343 <input type="checkbox"/> HW 6C <input type="checkbox"/> Section 6.8: Electric Current and Magnetic Fields <input type="checkbox"/> Reading assignment: Hewitt's <i>Conceptual Physical Science</i> , p. 237 - 241	HW 6C Test on Chapter 6
Jan 25	<input type="checkbox"/> Section 7.1: The Elements <input type="checkbox"/> Reading assignments: Hewitt's <i>Conceptual Physical Science</i> , p. 341 - 346 <input type="checkbox"/> HW 7A <input type="checkbox"/> Section 7.2 : Isotopes <input type="checkbox"/> Reading assignments: Hewitt's <i>Conceptual Physical Science</i> , p. 346 - 347	HW 7A
Feb 1	<input type="checkbox"/> Section 7.3: The Nature of Light; Scientific Revolution <input type="checkbox"/> Reading assignments: Hewitt's <i>Conceptual Physical Science</i> , p. 362 - 368 <input type="checkbox"/> HW 7B	HW 7B
Feb 8	<input type="checkbox"/> Section 7.4: Radioactivity <input type="checkbox"/> Reading assignments: Hewitt's <i>Conceptual Physical Science</i> , p. 381 - 393 <input type="checkbox"/> HW 7C <input type="checkbox"/> Section 7.5: Fission and Fusion <input type="checkbox"/> Reading assignments: Hewitt's <i>Conceptual Physical Science</i> , p. 395 - 407 <input type="checkbox"/> HW 7D <input type="checkbox"/> Chapter 7 Test	HW 7C HW 7D Test on Chapter 7
Feb 15	<input type="checkbox"/> Section 8.1: Physical and Chemical Changes <input type="checkbox"/> Reading assignments: Hewitt's <i>Conceptual Physical Science</i> , p. 411 - 421 <input type="checkbox"/> Section 8.2: Chemical Equations <input type="checkbox"/> Reading assignments: Hewitt's <i>Conceptual Physical Science</i> , p. 422 - 427 <input type="checkbox"/> HW 8A	HW 8A
Feb 22	<input type="checkbox"/> Section 8.3: Covalent Bonds <input type="checkbox"/> Reading assignments: Hewitt's <i>Conceptual Physical Science</i> , p. 457 - 459, 466 - 469 <input type="checkbox"/> Section 8.4: Ionic Bonds <input type="checkbox"/> Reading assignments: Hewitt's <i>Conceptual Physical Science</i> , p. 459 - 466 <input type="checkbox"/> HW 8B	HW 8B

Mar 1	<input type="checkbox"/> Section 8.5: Organic Compounds <input type="checkbox"/> Reading assignments: Hewitt's <i>Conceptual Physical Science</i> , p. 576 - 580, 595 - 601 <input type="checkbox"/> HW 8C <input type="checkbox"/> HW 8D <input type="checkbox"/> Chapter 8 Test	HW 8C HW 8D Chapter 8 Test
Mar 8	<input type="checkbox"/> Section 9.1: Early Astronomy <input type="checkbox"/> Reading assignments: Hewitt's <i>Conceptual Physical Science</i> , p. 789 - 791 <i>Focus on Physical Science</i> , p. 704 - 711 <input type="checkbox"/> Section 9.2: The Earth, Moon, Sun System <input type="checkbox"/> Reading assignments: Hewitt's <i>Conceptual Physical Science</i> , p. 792 - 800 <i>Focus on Physical Science</i> , p. 714 - 724 <input type="checkbox"/> HW 9A <input type="checkbox"/> HW 9B <input type="checkbox"/> HW 9C	HW 9A HW 9B HW 9C
Mar 15	<input type="checkbox"/> Section 9.3: The Moon <input type="checkbox"/> Reading assignments: <i>Focus on Physical Science</i> , p. 729 - 734 <input type="checkbox"/> Section 9.4: From the Earth to the Moon <input type="checkbox"/> Reading assignments: <i>Focus on Physical Science</i> , p. 725 - 728 <input type="checkbox"/> Chapter 9 Test	Test on Chapter 9
Mar 22	<input type="checkbox"/> Section 10.1: Historical Look at the Solar System <input type="checkbox"/> Reading assignments: <i>Focus on Physical Science</i> , p. 740 - 745 <input type="checkbox"/> HW 10A <input type="checkbox"/> Section 10.2: The Sun <input type="checkbox"/> Reading assignments: <i>Focus on Physical Science</i> , p. 746 - 750 Hewitt's <i>Conceptual Physical Science</i> , p. 800 - 802 <input type="checkbox"/> HW 10B	HW 10A HW 10B
Mar 29	<input type="checkbox"/> Section 10.3: The Inner Solar System <input type="checkbox"/> Reading assignments: <i>Focus on Physical Science</i> , p. 752 - 759 Hewitt's <i>Conceptual Physical Science</i> , p. 803 - 806 <input type="checkbox"/> Section 10.4: The Outer Solar System <input type="checkbox"/> Reading assignments: <i>Focus on Physical Science</i> , p. 760 - 767, 770 - 777 Hewitt's <i>Conceptual Physical Science</i> , p. 806 - 811 <input type="checkbox"/> HW 10C <input type="checkbox"/> Test on Chapter 10	HW 10C Chapter 10 Test
Apr 5	Spring Break	
Apr 12	<input type="checkbox"/> Section 11.1: The Tools Astronomers Use <input type="checkbox"/> Reading assignments: <i>Focus on Physical Science</i> , p. 784 - 790 <input type="checkbox"/> HW 11A <input type="checkbox"/> Section 11.2: Astronomical Distances <input type="checkbox"/> Reading assignments: <i>Focus on Physical Science</i> , p. 793 - 795, 811 - 814 <input type="checkbox"/> HW 11B	HW 11A HW 11B

Apr 19	<input type="checkbox"/> Section 11.3: Stars <input type="checkbox"/> Reading assignments: <i>Focus on Physical Science</i> , p. 795 - 799, 802 - 806 <i>Hewitt's Conceptual Physical Science</i> , p. 817 - 828 <input type="checkbox"/> HW 11C <input type="checkbox"/> Section 11.4: Galaxies <input type="checkbox"/> Reading assignments: <i>Focus on Physical Science</i> , p. 807 - 810 <i>Hewitt's Conceptual Physical Science</i> , p. 829 - 832 <input type="checkbox"/> HW 11D <input type="checkbox"/> Chapter 11 Test	HW 11C HW 11D Chapter 11 Test
Apr 26	Review for Exam	
May 3	Second Semester Exam	Exam due May 10