

Conceptual Physics Resource Links to Accompany Unit Guide - Semester 1

Unit Titles/Topics	Resources
<p>Mechanical Equilibrium & Newton's Laws HS-PS2-1 The Equilibrium Rule The Law of Inertia Newton's 2nd Law Velocity & Acceleration Newton's 3rd Law</p>	<p>The Scale of the Universe Powers of Ten (1977 IBM) Crash Course Physics Hewitt Drew It (1-10) Minute Physics Sixty Symbols Khan Academy - Forces - Newton's Laws</p>
<p>Momentum & Energy Principles HS-PS3-1 Impulse Conservation of Momentum Work Work-Energy Theorem Conservation of Energy</p>	<p>Hewitt Drew It (21-30) Hewitt Drew It (31-40) CK12 - Physics Veritasium Physics Girl Khan Academy - Linear Momentum Khan Academy - Work & Energy</p>
<p>Projectile, Circular & Rotational Motion HS-PS2-1 Free Fall & little g Projectiles Centripetal Acceleration Center of Mass Rotational Inertia Angular Momentum</p>	<p>Hewitt Drew It (11-20) Khan Academy - Centripetal Force & Gravitation Khan Academy - Projectile Motion Khan Academy - Torque & Angular Momentum</p>
<p>Gravity, Satellites and Einstein's Theory of Relativity HS-PS2-4 Big G Mass & Space Kepler's Laws Orbits Special Relativity & General Relativity</p>	<p>Hewitt Drew It (41-50) Khan Academy - Universal Law of Gravitation Khan Academy - Special Relativity</p>

Conceptual Physics Resource Links to Accompany Unit Guide - Semester 2

Unit Titles/Topics	Resources
<p>Mechanical Vibrations, Waves & Sound HS-PS3-2 Natural frequencies sound musical sound Simple Harmonic Motion Forced Oscillations & Resonance</p>	<p>Hewitt Drew It (81-90) Khan Academy - Mechanical Waves & Sound</p>
<p>Light & Electromagnetic Waves HS-PS3-5 Light Emission Color Reflection & Refraction Light Waves & Interference</p>	<p>Hewitt Drew It (81-90) Hewitt Drew It (101-110) Hewitt Drew It (111-120) Khan Academy - Light Waves Khan Academy - Geometric Optics</p>
<p>Electricity & Magnetism HS-PS2-5 Charge Current Voltage Resistance Magnetism</p>	<p>Hewitt Drew It (81-90) Hewitt Drew It (91-100) Hewitt Drew It (101-110) Khan Academy - Electrostatics Khan Academy - Magnetism</p>
<p>Atoms & Quantum Physics HS-PS1-8 The Atom The Nucleus & Radioactivity Nuclear Fission Nuclear Fusion</p>	<p>Hewitt Drew It (121-130) Hewitt Drew It (131-140) Khan Academy - Quantum Physics</p>