- Lesson 1: Duality and Models of the Atom
 - Brief History
 - Photoelectric Effect
 - Bohr's Model of the Hydrogen Atom
 - Energy level diagrams
 - Absorption and Emission Spectra
 - Spectrum Tube Demos with spectroscope
 - Duality and Models worksheet
- Lab 1: Modern Physics Website Activity
- Lesson 2: Check/review Duality and models worksheet and lab Quantum Theory part 1
 - Bill Nye Theory of Relativity Video
 - The electron-volt
 - E=mc² lecture (mass-energy relationship)
 - Uncertainty
 - Mass-Energy worksheet
- Lesson 3: Check/review Mass-Energy worksheet Quantum Theory part 2
 - Energy of photons and planks constant
 - deBroglie wavelength
 - photon energy and deBroglie wavelength worksheet
- Lab 2: Finish and review Quantum photon energy and deBroglie wavelength worksheet
- Lesson 4: The Standard Model lecture Four Fundamental Forces in nature Classification of matter Matter and Antimatter collisions (annihilation) Photon-particle collisions Standard Model and collisions worksheet
- Lesson 5: Jeopardy Unit Review