Using PhET Simulations in Physical Chemistry Topics

http://phet.colorado.edu

Empirical Properties of Gases
- Gas Properties

Phase Equilibrium in Simple Systems
- States of Matter

Intermolecular Forces
- Atomic Interactions

Chemical Kinetics
- Reactants, Products and Leftovers
- Reactions & Rates

Structure of Matter
- Models of the Hydrogen Atom
- Davisson-Germer: Electron Diffraction
- Double Wells and Covalent Bonds
- Band Structure
- Rutherford Scattering

Introduction to Quantum Mechanics
- Models of the Hydrogen Atom
- Fourier Making Waves
- Photoelectric Effect
- Quantum Bound States
- Quantum Wave Interference
- Stern-Gerlach Experiment
- Quantum Tunneling

Spectroscopy
- Lasers
- Neon Lights and Other Discharge Lamps
- Microwaves
- Simplified MRI

Quantum Applications
- Davisson-Germer: Electron Diffraction
- Lasers
- Simplified MRI
- Neon Lights and Other Discharge Lamps
- Conductivity
- Semi-Conductors
- Nuclear Fission

All General Chemistry Simulations

- Alpha Decay
- Atomic Interactions
- Balloons & Buoyancy
- Balloons and Static Electricity
- Beta Decay
- Blackbody Spectrum
- Gas Properties
- The Greenhouse Effect
- Microwaves
- Models of the Hydrogen Atom
- Neon Lights & Other Discharge Lamps
- Nuclear Fission
- pH Scale
- Photoelectric Effect
- Radio Waves & Electromagnetic Fields
- Radioactive Dating Game
- Reactants, Products and Leftovers
- Reactions & Rates
- Reversible Reactions
- Rutherford Scattering
- Salts & Solubility
- States of Matter
- Waves on a String

All Quantum Chemistry Simulations

- Davisson-Germer: Electron Diffraction
- Double Wells and Covalent Bonds
- Fourier Making Waves
- Lasers
- Quantum Bound States
- Simplified MRI
- Semi-Conductors
- Stern-Gerlach Experiment
- Quantum Wave Interference