

**Sample Middle School (6-8) Simulation Use
PhET Interactive Simulations 2015**

Physical Science Topic Area	PhET Simulations	Supplemental PhET Simulations
Atoms and Molecules	Build a Molecule Build an Atom Isotopes and Atomic mass Models of the Hydrogen Atom Rutherford Scattering	Alpha Decay John Travoltage Molecule Shapes
Structure and Properties of Matter	States of Matter States of Matter: Basics Friction	
Chemical Reactions	Balancing Chemical Reactions Reversible Reactions	Alpha Decay Atomic Interactions Reversible Reactions
Forces and Interactions	Forces and Motion Forces and Motion: Basics Collision Lab Electric Field Hockey Electric Field of Dreams Magnets and Electromagnets Motion in 2D Moving Man Ramp: Forces and Motion	Magnet and Compass
Energy – “Conservation of Energy”?	Energy Forms and Changes Energy Skate Park Pendulum Lab	Nuclear Fission

**Sample Middle School (6-8) Simulation Use
PhET Interactive Simulations 2015**

<u>Earth and Space Science</u> Topic Area and Sub-topics	PhET Simulations	Supplemental PhET Simulations
Space Systems	Gravity Force Lab Gravity and Orbits Lunar Lander My Solar System	
Weather and Climate	Density Under Pressure The Greenhouse Effect	
Waves and Electromagnetic Radiation	Color Vision Wave on a String Wave Interference Bending Light Sound Radio Waves and Electromagnetic Fields	Blackbody Spectrum Geometric Optics Masses and Springs
History of Earth	Plate Tectonics Radioactive Dating Game	
Earth's Systems	Glaciers	The Greenhouse Effect

**Sample Middle School (6-8) Simulation Use
PhET Interactive Simulations 2015**

<u>Life Science</u> Topic Area and Sub-topics	PhET Simulations	Supplemental PhET Simulations
Structure, Function, and Information Processing	No simulations yet	No simulations yet
Matter and Energy in Organisms & Ecosystems	No simulations yet	No simulations yet
Interdependent Relationships in Ecosystems	No simulations yet	No simulations yet
Natural Selection and Adaptations	Natural Selection Plinko Probability Radioactive Dating Game	Gene Expression – The Basics Stretching DNA