

# Sample Use of PhET in Middle and Elementary School

<http://phet.colorado.edu>

## ***\*\*Middle School\*\****

### **MOTION AND FORCES**

Buoyancy  
Collision Lab  
Energy Skate Park  
Forces and Motion  
Friction  
Lady Bug Revolution  
Lunar Lander  
The Maze Game  
Moving Man  
My Solar System  
Projectile Motion  
Ramp: Forces and Motion

### **CIRCUITS, ELECTRICITY, AND MAGNETISM**

Balloons and Static Electricity  
Battery Voltage  
Circuit Construction  
Conductivity  
Electric Field Hockey  
Faraday's Electromagnetic Lab  
The Generator  
John Travoltage  
Magnets and Electromagnets  
Ohm's Law

### **SOUND AND WAVES**

Radio Waves  
Sound  
Wave on a String  
Wave Interference

### **CHEMISTRY**

Alpha Decay  
Beta Decay  
Build An Atom  
Density  
Friction  
Gas Properties  
Lasers  
Microwaves  
Neon Lights  
Nuclear Fission  
pH Scale  
Radioactive Dating Game  
Reactions, Products, and Leftovers  
Reaction and Rates  
Rutherford Scattering  
Models of Hydrogen Atom  
Salts and Solubility  
States of Matter

### **WEATHER**

Glaciers  
Greenhouse Effect

### **BIOLOGY**

Cell Membrane (*coming*)  
Color Vision  
Eating and Exercise  
Natural Selection

### **MATH**

Arithmetic  
Curve Fit  
Equation Grapher  
Estimation  
Ladybug Revolution  
Masses & Springs  
Moving Man  
Ohm's Law  
Pendulum Lab  
Plinko Probability  
Projectile Motion  
Resistance in a Wire  
Vector Addition

## ***\*\*Elementary School\*\****

### **MOTION AND FORCES**

Buoyancy  
Forces and Motion  
Friction  
Ladybug Motion 2d  
Lunar Lander  
Maze Game  
Moving Man  
Projectile Motion

### **WORK, ENERGY, AND POWER**

Energy Skate Park  
Gas Properties  
Masses & Springs  
Pendulum Lab  
States of Matter  
Ramp-Force and Motion

### **SOUND AND WAVES**

Sound  
Wave on a String  
Wave Interference

### **CIRCUITS, ELECTRICITY, AND MAGNETISM**

Balloons and Static Electricity  
Circuit Construction Kit  
Electric Field Hockey  
Faraday's Electromagnetic Lab  
John Travoltage  
Magnet & Compass  
Magnets & Electromagnets  
Signal Circuit

### **LIGHT AND RADIATION**

Color Vision

### **BIOLOGY**

Eating & Exercise  
Natural Selection

### **CHEMISTRY**

Build an Atom  
Density  
Gas Properties  
Salts & Solubility

### **EARTH SCIENCE**

Glaciers  
The Greenhouse Effect

### **MATH**

Arithmetic  
Estimation  
Equation Grapher  
Plinko Probability

**Hint: Scroll to *Teaching Ideas* section of individual simulation page to find sample activities.**