

Elementary School Simulation Ideas

PhET Interactive Simulations (phet.colorado.edu), University of Colorado

Motion, Force, & Energy

Balancing Act
Energy Forms and Changes
Energy Skate Park
Energy Skate Park: Basics
Friction
Gravity and Orbits
Gravity Force Lab
Forces and Motion: Basics
Friction
Lady Bug Motion 2D
Lunar Lander
Masses and Springs
Maze Game
The Moving Man
Pendulum Lab
Projectile Motion
States of Matter: Basics

Waves: Sound, Light, Water

Bending Light
Sound
Wave Interference
Wave on a String

Electricity & Magnetism

Balloons and Static Electricity
Circuit Construction Kit (DC)
Electric Field Hockey
Faraday Electromagnetic Lab
Generator
John Travoltage
Magnets and Compass
Magnets & Electromagnets
Signal Circuit

Earth Science

Density
Gas properties
Glaciers
Gravity and Orbits
Greenhouse Effect
Lunar Lander
States of Matter
States of Matter: Basics
Wave Interference

Biology

Color Vision
Eating and Exercise
Natural Selection

Math

Arithmetic
Build a Fraction
Equation Grapher
Estimation
Fraction Matcher
Fraction Intro
Graphing Lines

Chemistry

Build an Atom
Concentration
Density
Gas Properties
Salts and Solubility
States of Matter
Sugar and Salts Solutions