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| **Physical Science**  **Topic Area** | **PhET Simulations** | **Supplemental PhET Simulations** |
| **Atoms and Molecules** | [Build a Molecule](https://phet.colorado.edu/en/simulation/build-a-molecule)  [Build an Atom](https://phet.colorado.edu/en/simulation/build-an-atom)  [Isotopes and Atomic mass](https://phet.colorado.edu/en/simulation/isotopes-and-atomic-mass)  [Models of the Hydrogen Atom](https://phet.colorado.edu/en/simulation/hydrogen-atom)  [Rutherford Scattering](https://phet.colorado.edu/en/simulation/rutherford-scattering) | [Alpha Decay](https://phet.colorado.edu/en/simulation/alpha-decay)  [John Travoltage](https://phet.colorado.edu/en/simulation/john-travoltage)  [Molecule Shapes](https://phet.colorado.edu/en/simulation/molecule-shapes) |
| **Structure and Properties of Matter** | [States of Matter](https://phet.colorado.edu/en/simulation/states-of-matter)  [States of Matter: Basics](https://phet.colorado.edu/en/simulation/states-of-matter-basics)  [Friction](https://phet.colorado.edu/en/simulation/friction) |  |
| **Chemical Reactions** | [Balancing Chemical Reactions](https://phet.colorado.edu/en/simulation/balancing-chemical-equations)  [Reversible Reactions](https://phet.colorado.edu/en/simulation/reversible-reactions) | [Alpha Decay](https://phet.colorado.edu/en/simulation/alpha-decay)  [Atomic Interactions](https://phet.colorado.edu/en/simulation/atomic-interactions)  [Reversible Reactions](https://phet.colorado.edu/en/simulation/reversible-reactions) |
| **Forces and Interactions** | [Forces and Motion](https://phet.colorado.edu/en/simulation/forces-and-motion)  [Forces and Motion: Basics](https://phet.colorado.edu/en/simulation/forces-and-motion-basics)  [Collision Lab](https://phet.colorado.edu/en/simulation/collision-lab)  [Electric Field Hockey](https://phet.colorado.edu/en/simulation/electric-hockey)  [Electric Field of Dreams](https://phet.colorado.edu/en/simulation/efield)  [Magnets and Electromagnets](https://phet.colorado.edu/en/simulation/magnets-and-electromagnets)  [Motion in 2D](https://phet.colorado.edu/en/simulation/motion-2d)  [Moving Man](https://phet.colorado.edu/en/simulation/moving-man)  [Ramp: Forces and Motion](https://phet.colorado.edu/en/simulation/ramp-forces-and-motion) | [Magnet and Compass](https://phet.colorado.edu/en/simulation/magnet-and-compass) |
| **Energy – “Conservation of Energy”?** | [Energy Forms and Changes](https://phet.colorado.edu/en/simulation/energy-forms-and-changes)  [Energy Skate Park](https://phet.colorado.edu/en/simulation/energy-skate-park)  [Pendulum Lab](https://phet.colorado.edu/en/simulation/pendulum-lab) | [Nuclear Fission](https://phet.colorado.edu/en/simulation/nuclear-fission) |

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| **Earth and Space Science**  **Topic Area and**  **Sub-topics** | **PhET Simulations** | **Supplemental PhET Simulations** |
| **Space Systems** | [Gravity Force Lab](https://phet.colorado.edu/en/simulation/gravity-force-lab)  [Gravity and Orbits](https://phet.colorado.edu/en/simulation/gravity-and-orbits)  [Lunar Lander](https://phet.colorado.edu/en/simulation/lunar-lander)  [My Solar System](https://phet.colorado.edu/en/simulation/my-solar-system) |  |
| **Weather and Climate** | [Density](https://phet.colorado.edu/en/simulation/density)  [Under Pressure](https://phet.colorado.edu/en/simulation/under-pressure)  [The Greenhouse Effect](https://phet.colorado.edu/en/simulation/greenhouse) |  |
| **Waves and Electromagnetic Radiation** | [Color Vision](https://phet.colorado.edu/en/simulation/color-vision)  [Wave on a String](https://phet.colorado.edu/en/simulation/wave-on-a-string)  [Wave Interference](https://phet.colorado.edu/en/simulation/wave-interference)  [Bending Light](https://phet.colorado.edu/en/simulation/bending-light)  [Sound](https://phet.colorado.edu/en/simulation/sound)  [Radio Waves and Electromagnetic Fields](https://phet.colorado.edu/en/simulation/radio-waves) | [Blackbody Spectrum](https://phet.colorado.edu/en/simulation/blackbody-spectrum)  [Geometric Optics](https://phet.colorado.edu/en/simulation/geometric-optics)  [Masses and Springs](https://phet.colorado.edu/en/simulation/mass-spring-lab) |
| [**History of Earth**](http://ngss.nsta.org/DisplayStandard.aspx?view=topic&id=35) | [Plate Tectonics](https://phet.colorado.edu/en/simulation/plate-tectonics)  [Radioactive Dating Game](https://phet.colorado.edu/en/simulation/radioactive-dating-game) |  |
| **Earth’s Systems** | [Glaciers](https://phet.colorado.edu/en/simulation/glaciers) | [The Greenhouse Effect](https://phet.colorado.edu/en/simulation/greenhouse) |

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| **Life Science**  **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**](http://ngss.nsta.org/DisplayStandard.aspx?view=topic&id=30) | No simulations yet | No simulations yet |
| [**Interdependent Relationships in Ecosystems**](http://ngss.nsta.org/DisplayStandard.aspx?view=topic&id=31) | No simulations yet | No simulations yet |
| [**Natural Selection and Adaptations**](http://ngss.nsta.org/DisplayStandard.aspx?view=topic&id=33) | [Natural Selection](https://phet.colorado.edu/en/simulation/natural-selection)  [Plinko Probability](https://phet.colorado.edu/en/simulation/plinko-probability)  [Radioactive Dating Game](https://phet.colorado.edu/en/simulation/radioactive-dating-game) | [Gene Expression – The Basics](https://phet.colorado.edu/en/simulation/gene-expression-basics)  [Stretching DNA](https://phet.colorado.edu/en/simulation/stretching-dna) |