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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) |