



# Enrichment Activity

## Potential Science Investigation Topics

### Library/Internet Research

Here are some potential topics for library or Internet research.

<b>UNIT 1</b>	Pendulum Magnets Electrical Charge Electrical Current	Electric Circuits Electromagnets Generators and Motors Density	Errors in Measurement Experiment Design Teamwork in Science
<b>UNIT 2</b>	Energy Mechanical Waves Sound Earthquakes	Motion (velocity, acceleration) Mechanical Interactions Drag Interaction	Friction Interaction Applied Interaction Elastic Interactions
<b>UNIT 3</b>	Force Newton's Laws Isaac Newton Friction Drag Hooke's Law	Normal Force Rolling Gravity Cavendish Kepler's Law	Newton's Universal Law of Gravitation Buoyancy Potential Energy The Solar System Stars Planets/Moons
<b>UNIT 4</b>	Conservation of Mass Conservation of Energy Efficiency Albert Einstein Antoine Lavoisier & Mikhail Lomonosov Phase changes Electromagnetic Spectrum Electromagnetic Radiation	Energy Resources Power Plants Wind Farm Hydroelectric Power Plants Geothermal Energy	Nuclear Power Nuclear Waste Global Warming Greenhouse Effect Solar Power Stars Galaxies
<b>UNIT 5</b>	Microscopes (Optical, Scanning Tunneling, Electron, Atomic Force) Chemical Interactions Solutions Metals	Periodic Table Acids and Bases Carbon Corrosion Endothermic/Exothermic Reactions	Centrifuge Electrolysis Thermal Conductivity Electrical Conductivity
<b>UNIT 6</b>	Physical Interactions Models Molecular Motion Chemical Bonds Thermodynamics Atomic Structure Nuclear Structure John Dalton Hantaro Nagaoka	Ernest Rutherford James Chadwick Alpha Decay Beta Decay Gamma Decay Radioactive Isotopes and their Uses	Polymers Bucky Balls Nano Structures Chemistry in Life (Fats, Carbohydrates, Protein, DNA, RNA etc.) Catalysts Enzymes