

Related WV Science Content Standards and Objectives

SC.O.3.2.14	Identify examples of potential and kinetic energy.
SC.O.4.2.16	Identify different forms of energy and describe energy transformations that occur between them (e.g., electrical to heat, or radiant to chemical).
SC.O.5.2.23	Identify resources as being renewable or non-renewable.
SC.O.6.2.09	Analyze the ecological consequences of human interactions with the environment (e.g., renewable and non-renewable resources).
SC.O.6.3.02	Construct a variety of useful models of an object, event, or process.
SC.O.7.2.23	Explain conservation of matter and energy and investigate the different forms of energy (e.g., mechanical, potential, kinetic, or gravitational).
SC.O.8.1.07	Design, conduct, evaluate and revise experiments (e.g., compose a question to be investigated, design a controlled investigation that produces numeric data, evaluate the data in the context of scientific laws and principles, construct a conclusion based on findings, propose revisions to investigations based on manipulation of variables and/or analysis of error, or communicate and defend the results and conclusions).
SC.O.8.2.18	Examine the various sources of energy (e.g., fossil fuels, wind, solar, geothermal, nuclear, biomass).

Next Generation Science Standards

Science and Engineering Practices

Analyzing and Interpreting Data

Constructing Explanations and Designing Solutions

Developing and Using Models

Planning and Carrying Out Investigations

Cross Cutting Concepts

Cause and Effect

Systems and System Models

Energy and Matter

Structure and Function

Stability and Change

Disciplinary Core Ideas

PS1.A Structure and Properties of Matter

PS2.B Forces and Motion

PS2.B Types of Interactions

PS3.A Definitions of Energy

PS3.B Conservation of Energy and Energy Transfer

PS3.C Relationship Between Energy and Forces