



Energy

Contents

<i>Preview the Book</i>	2
What Is Energy?	3
Energy and Change	4
Kinetic Energy	5
Potential Energy	6
<i>How to Read Diagrams</i>	8
What Are Some Forms of Energy?	9
Sound Energy	10
Light Energy	11
Thermal Energy	12
Electric Energy	13
Chemical Energy	14
Nuclear Energy	15
<i>Main Idea and Details</i>	16
What Are Some Ways Energy Changes Form? ..	17
Changes in Energy	18
<i>Cause and Effect</i>	20
What Are Energy Resources?	21
Renewable and Nonrenewable Resources	22
Using Energy Wisely	23
Glossary	24



Glossary

chemical energy (KEM-i-kuhl EN-ur-jee) a form of energy stored in matter that can be released by a chemical change **(14)**

electric charge (i-LEK-trik CHAHRJ) a property of matter; in atoms, protons have a positive electric charge and electrons have a negative electric charge **(13)**

electric energy (i-LEK-trik EN-ur-jee) a form of energy produced by the buildup or flow of electric charge; electricity **(13)**

energy (EN-ur-jee) the ability to make things change **(4)**

fossil fuel (FOS-uhl FYOO-uhl) a fuel that formed over millions of years from the buried remains of living things **(22)**

heat (HEET) the movement, or transfer, of thermal energy from warmer objects to cooler objects **(12)**

kinetic energy (ki-NET-ik EN-ur-jee) the energy an object has due to its motion **(5)**

light energy (LITE EN-ur-jee) a form of energy that travels in waves and can be seen with the human eye **(11)**

nonrenewable resource (non-ri-NOO-uh-buhl REE-sors) an energy resource that cannot be replaced easily once it is used up, such as coal, oil, or natural gas **(22)**

nuclear energy (NOO-klee-ur EN-ur-jee) a form of energy stored in the nucleus of an atom **(15)**

potential energy (puh-TEN-chuhl EN-ur-jee) the energy an object has due to its condition or position; also called stored energy **(6)**

renewable resource (ri-NOO-uh-buhl REE-sors) an energy resource that can be replaced easily or cannot be used up **(22)**

sound energy (SOUND EN-ur-jee) a form of energy that travels in waves that are made when matter vibrates **(10)**

temperature (TEM-pur-uh-chur) the measure of how hot or cold something is **(12)**

thermal energy (THER-muhl EN-ur-jee) the total energy of the moving particles within an object **(12)**

wave (WAYV) a repeating pattern that carries energy through matter or space **(10)**

