

## Glossary

**Blue words and phrases** are Core Vocabulary terms for the unit, and Student Reader page numbers are listed in parentheses. **Bold-faced words and phrases** are additional vocabulary terms related to the unit that you should model for students during instruction and that are often used within the Student Reader, and these latter terms do not have specific page numbers listed. Vocabulary words are not intended for use in isolated drill or memorization.

---

### C

**cause and effect, n.** is a relationship in which one thing makes another thing happen

**change, v.** to become different (1)

**claim, n.** a statement that answers a question or poses a solution to a problem

**collide, v.** to come together with impact (25)

**collision, n.** an instance of colliding (25)

**contact, n.** to be physically touching

**conversion, n.** the process of being converted or changing form (32)

**convert, v.** to change form (32)

---

### D

**design problem, n.** a problem for which a design solution should be applied

**design solution, n.** the method someone develops to solve a design problem

**distance, n.** amount of space between two objects

---

### E

**electrical energy, n.** the flow of electrons from one location to another

**electricity, n.** a form of energy caused by the movement of electrons

**energy, n.** the ability to cause change (1)

**energy change, n.** the conversion of one form of energy into one or more other forms of energy

**energy of motion, n.** the energy an object possesses while it is moving (9)

**energy transfer, n.** movement of energy from one object to another or from one place to another (17)

**energy transformation, n.** the change of one form of energy to another form of energy (32)

**engineering design, n.** a process used to develop a solution to a problem (36)

**evidence, n.** anything that helps prove or disprove an idea

---

### F

**forms of energy, n.** the different forms energy can be found in, such as light or heat

---

### H

**heat, n.** a form of energy caused by the movement of atoms or molecules

---

### L

**light, n.** a form of energy caused by the movement of photons, which are little packets of energy

---

### M

**model, n.** a helpful tool for representing an idea or explaining a process or relationship

**motion, n.** the process of an object changing position (7)

---

### O

**observation, n.** the act of noting or viewing something

---

### P

**position, n.** the place an object occupies

**prediction, n.** a statement about what might or will happen

---

### R

**reasoning, n.** a scientific mindset that connects claims and evidence

**rotate, v.** to spin

---

## S

**solution, n.** a method for solving a problem

**sound, n.** a form of energy that comes from a vibrating object (28)

**speed, n.** a measurement of the distance an object travels over an amount of time (13)

**stored energy, n.** energy that has the ability to cause change at a later time (4)

---

## T

**transfer, v.** to move from one place to another

**transform, v.** to change the appearance or form of something; see also **energy transformation**

---

## V

**variable, n.** something that is changed or is not consistent