

Chapter 15 Energy

Section 15.2 Energy Conversion and Conservation

(pages 453–459)

This section describes how energy is converted from one form to another. The law of conservation of energy also is presented.

Reading Strategy (page 453)

Relating Cause and Effect As you read, complete the flowchart to explain an energy conversion used by some gulls to obtain food. For more information on this Reading Strategy, see the **Reading and Study Skills** in the **Skills and Reference Handbook** at the end of your textbook.

How Gulls Use Energy Conversions**Energy Conversion (page 454)**

1. Is the following sentence true or false? Energy can be converted from one form to another. _____
2. When a wind-up toy is set in motion, elastic potential energy that was stored in a compressed spring is converted into the _____ of the toy's moving parts.
3. Is the following sentence true or false? The action of striking a match shows that stored chemical energy in the match can be converted into thermal energy and electromagnetic energy of the flame in a single step. _____

Conservation of Energy (page 455)

4. What does the law of conservation of energy state? _____
5. Is the following sentence true or false? When an object slows down because of frictional force acting on it, an amount of energy is destroyed that is equivalent to the decrease in kinetic energy of the object. _____
6. A moving object slows down because friction causes a continual conversion of kinetic energy into _____.

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SA Adler



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