

Content Vocabulary

LESSON 1

Types of Energy

Directions: On the line before each clue, write the letter of the term that matches it correctly. Then respond to the statement that follows.

- _____ 1. a type of kinetic energy that powers a cell phone **A.** kinetic energy
- _____ 2. a basketball held over your head has this **B.** sound energy
- _____ 3. space that contains no matter **C.** thermal energy
- _____ 4. anything in motion has this **D.** seismic energy
- _____ 5. stored in the bonds between atoms **E.** mechanical energy
- _____ 6. important to bats as they search for prey **F.** electric energy
- _____ 7. stored in and released from the nucleus of an atom **G.** chemical energy
- _____ 8. potential energy + kinetic energy in a system of objects **H.** nuclear energy
- _____ 9. potential energy + kinetic energy of the particles that make up an object **I.** potential energy
- _____ 10. released when earthquakes occur; transferred by waves moving through the ground **J.** radiant energy
- _____ 11. carried by electromagnetic waves **K.** vacuum
- _____ 12. causes change **L.** energy

13. Imagine a computer and computer monitor powered by electricity that has been generated by a wind turbine. Describe the types of energy involved.

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LESSON 2

Energy Transformations and Work

Directions: Answer each question or respond to each statement on the lines provided. You must include the terms below in your answers.

- energy transformation
- transform
- law of conservation of energy
- work

1. What does it mean for something to *transform*?

2. What is energy transformation? How does a heat lamp provide an example of energy transformation? How does energy transformation relate to a heat lamp keeping an animal warm?

3. How are energy transformations related to the law of conservation of energy?

4. **Define work.** If you are standing still, holding a book, are you doing work? Explain.

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LESSON 3

Machines

Directions: Complete each section of the chart with a drawing and a definition of the simple machine. Then answer the questions that follow.

<p style="text-align: center;">Lever</p> <p>1. Drawing</p> <p>2. Definition:</p>	<p style="text-align: center;">Screw</p> <p>7. Drawing</p> <p>8. Definition:</p>
<p style="text-align: center;">Inclined Plane</p> <p>3. Drawing</p> <p>4. Definition:</p>	<p style="text-align: center;">Wedge</p> <p>9. Drawing</p> <p>10. Definition:</p>
<p style="text-align: center;">Pulley</p> <p>5. Drawing</p> <p>6. Definition:</p>	<p style="text-align: center;">Wheel and Axle</p> <p>11. Drawing</p> <p>12. Definition:</p>

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13. How is a complex machine different from a simple machine?

14. How do you calculate the efficiency of a machine?
