

Content Practice A**LESSON 1****Forms of Energy**

Directions: On each line, write the term from the word bank that correctly completes each sentence. Some terms may be used more than once or not at all.

electrical	energy	kinetic	mechanical	nuclear
potential	radiant	sound	thermal	work

1. Energy due to motion is _____ energy.
2. The amount of _____ energy an object has depends on the object's speed and mass.
3. Energy that is stored in the nucleus of an atom is _____ energy.
4. The ability to cause change is _____.
5. _____ energy is stored energy.
6. Energy that is carried by an electric current is _____ energy.
7. Gravitational, elastic, and chemical are three forms of _____ energy.
8. The transfer of energy that occurs when a force is applied over a distance is _____.
9. Energy that is the total of the kinetic energy and potential energy in an object or group of objects is _____ energy.
10. The energy of atoms and molecules in an object due to their motions is _____ energy.
11. Energy is the ability to do _____.
12. Energy carried by electromagnetic waves is called _____ energy.

Content Practice B

LESSON 1

Forms of Energy

Directions: Answer each question or respond to each statement on the lines provided.

1. What are two definitions of energy?

2. Which form of energy do all moving objects have? Which two factors determine the amount of this energy that an object has?

3. **Define** potential energy and list three forms of potential energy.

4. **Define** work.

5. What does an object need before it can perform work?

6. Objects have kinetic energy and potential energy. **List** six other forms of energy and write a phrase that describes each form.

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Content Practice B

LESSON 2

Energy Transformations

Directions: Respond to each statement on the lines provided.

1. Write a definition of *energy transformation*.

2. Describe the energy transformations that occur when you toss a ball upward and it falls. Include the causes of the transformations.

3. Compare the forms and amounts of energy before and after you apply the brakes of a bicycle and stop.

4. Define *friction*.

5. Give an example of how mechanical energy can be transformed into another type of energy.
