

Name : \_\_\_\_\_

Al Baheya Common School

Date: \_\_\_\_\_

Grade : 4 \_\_\_\_\_

Lesson 1 - Types of Energy (Review)

Choose the correct answer:

1. Stored energy that is released when the links between the particles that make up matter are broken.  
a. Chemical Energy                      b. Electrical Energy                      c. Nuclear Energy
2. Energy that comes from the movement of charged particles.  
a. Chemical Energy                      b. Electrical Energy                      c. Nuclear Energy
3. Potential energy that is released when links between particles, which are tiny parts that make up a material, are broken or created.  
a. Chemical Energy                      b. Electrical Energy                      c. Nuclear Energy
4. A type of energy produced by vibrations of material.  
a. Electrical Energy                      b. Sound Energy                      c. Light Energy
5. This energy is visible and travel through space.  
a. Electrical Energy                      b. Sound Energy                      c. Light Energy
6. The internal energy of an object due to the energy of motion of its particles.  
a. Electrical Energy                      b. Sound Energy                      c. Light Energy

Identify the type of energy:



Classify the following as potential (stored) energy (or) kinetic (energy of motion) energy. (Page 14)

Chemical Energy

Nuclear Energy

Electrical Energy

Sound Energy

Thermal Energy

Light Energy

| Potential (Stored) Energy | Kinetic (Energy of motion) Energy |
|---------------------------|-----------------------------------|
|                           |                                   |

Read the picture and description below and complete the blanks. (Page 15)



1. Window with Sunlight: The radiation from the Sun is converted to \_\_\_\_\_ and \_\_\_\_\_ in the classroom.
2. Teacher talking: The teacher transforms \_\_\_\_\_ energy from food into \_\_\_\_\_ energy and \_\_\_\_\_ energy.
3. Computer: The computer transforms \_\_\_\_\_ energy into \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ energy.
4. Students building a model: The students transform \_\_\_\_\_ energy from food into \_\_\_\_\_ energy when they use their hands to build a model.

Is energy transferred or transformed? Identify the types of energy. (Page 17)

|                                                                                                    | Energy transfer or transformation | Types of energy |
|----------------------------------------------------------------------------------------------------|-----------------------------------|-----------------|
| Wind-up toy       |                                   |                 |
| Pom-pom launcher  |                                   |                 |
|  Dropped ball      |                                   |                 |
|  Marbles           |                                   |                 |

Choose the correct answer: (Page 23)

1. Which best describes how energy changes in a toaster?

- a. Chemical to thermal
- b. electrical to light
- c. electrical to thermal
- d. electrical to chemical



2. Dan made the following observations in his science notebook:

The radio sitting on the table made the water in my glass move.  
What can he conclude?

- a. Some types of energy cannot transfer through water.
- b. The sound energy of the radio transferred to the water.
- c. The electrical energy of the radio transferred through the water.
- d. Only light can move through the water.



3.

| Energy transformation | Example                                                                                                                                       |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Motion to sound       | <p>A. Burning candle heats up.</p> <p>B. Plucked guitar string makes noise.</p> <p>C. Ball rolls downhill.</p> <p>D. Rubbing warms hands.</p> |