



Name: ..... G 4 \ ..... / ..... / 2025

**Q1: Choose the correct answer for each one:**

1-The lightbulb changes electrical energy into light energy. This is an example of?

- a- Energy transformation                      b- Energy exchange  
c-Energy being created                      d-Nothing happened

2- A child hitting a drum creates vibrations that produce:

- a-Light energy                      b- Thermal energy                      c- Sound energy



3- Which statement is true?

- a- A lamp changes heat energy to electrical energy.  
b- A lamp changes light energy to electrical energy.  
c- A lamp changes electrical energy to light and heat.



4- Electrical energy is transferred when an iron is plugged into an outlet. An iron will change electrical energy to ....

- a-Light energy                      b-Thermal energy                      c-Nuclear energy



5-Thermal energy is:

- a-The external energy of an object due to its potential energy  
b-The internal energy of an object due to the kinetic energy of its particles  
c-The internal energy of an object due to the stored energy of its particles

6-When a person plucks the string on a guitar, ..... energy is transferred.

- a-Sound energy                      b-Thermal energy                      c-Nuclear energy



7- What is Earth's main source of light energy?

- a-The Moon                      b-The Sun                      c-The Stars                      D-The Fire

8- Energy directly from the Sun can be used to \_\_\_\_\_. Select all that apply (**select all apply**).

- a-heat water                      b-cool water                      c-provide light                      d-make sound

9-Rashed placed a metal spoon in a glass of hot soup. When he touched the spoon, he found that it was hot. Rashed knew that the spoon was not hot when he put it in the soup. Which sentence best explains how this happened?



- a-Spoon began heating up when they are placed into liquids.
- b-Thermal energy is transferred from the soup to the spoon.
- c-Heat is created when metals and glasses combine with one another.

10- What happens when energy transfers in a system?

- a- About 75% of the energy is transferred, while the rest is destroyed.
- b- All energy is transferred in different amounts to different forms.

11- Nuclear reactions in the Sun release:

- a-Nuclear energy
- b-Electricity energy
- c-Sound energy

**Q3-Write the correct number of the Energy type under each picture:**

1-Thermal Energy

2-Chemical Energy

3-Sound Energy

4-Nuclear Energy

5-Electricity Energy

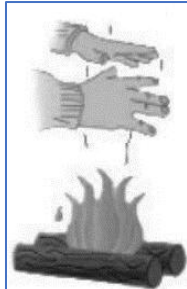
6-Light Energy



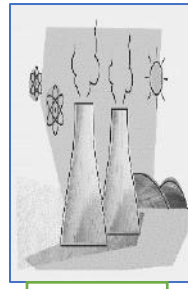
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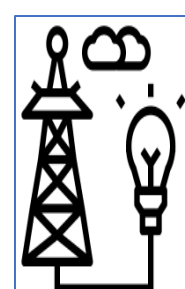
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**B-Write the correct number of each kind of energy from( 1- 6) in correct box:**

**Potential Energy ( stored )**

A-.....

B-.....

**Kinetic Energy ( motion )**

A-.....

B-.....

C-.....

D-.....