Grade 4 Week 1 U2-L1 Forms of Energy Ms. Arwa Al Messabi

Term 2 ST name: ..... 4\ .....

Q1: Put correct number of meaning near each type of energy:

1-Energy released when links between particles are broken or created.

2- Energy released when links between particles that makeup matter are broken.

3-Come from movement of charged particles or chemical energy that stored in batteries.

4-Internal energy of an object due to energy of motion of its particles.

5-Its produced by vibration of material.

6-Energy form of electromagnetic radiation that is visible to the human eye.

A-(.....)Nuclear energy
الطاقة النووية

B-(.....) Chemical Energy
الطاقة الكيميائية

C-(.....) Sound energy
الطاقة الصوتية

D-(.....) Thermal energy
الطاقة الحرارية

E-(.....) Electrical energy
الطاقة الكهربائية

F-(.....) Light energy.
الطاقة الضوئية

Q2: Choose 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**

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



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

3- What happens when energy transfers in a system.

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

4- 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 energy.**

5-Electrical energy is transferred when an iron is plugged into an outlet. What type of energy does the electrical energy become:



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

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6-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

7-When a person plucks the string on a guitar, ……. energy is transferred into……



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

8-Rashed placed a metal spoon in a glass of hot soup. When he touched the spoon, he find 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?

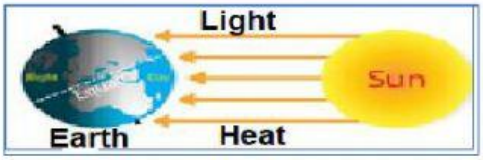


a-Spoons begin heating up when they are placed into liquids.

c-Thermal energy is transferred from the soup to the spoon.

d-Heat is created when metals and glasses combine with one another.

9- Energy that transferred from the Sun to Earth is ……. and ……. energy.



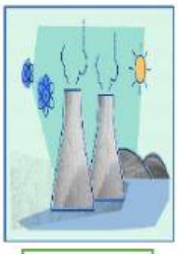
Q3-A-Write correct number under each picture :اكتب الرقم الصحيح من أنواع الطاقة لكل صورة اسفلها



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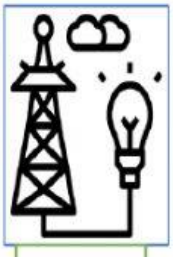
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1-Thermal Energy 2-Chemical Energy 3-Sound Energy

4-Nuclear Energy 5-Electricity Energy 6-Light Energy

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

……. **and** ……. **Are Potential or stored Energy** طاقة مخزونة	……., ……., ……., **and**…… **are Kinetic Or Energy of Motion.**طاقة حركة

LIVEWORKSHEETS