

Date: _____

Chapter 6, Practice Worksheet (6. A & B)

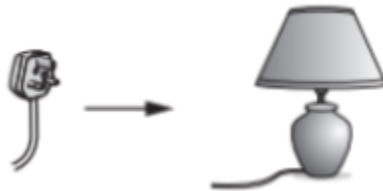
1. Objects in our homes transfer electrical energy into other types of energy. Write the correct type of energy transferred in the blanks.

a. cooker:



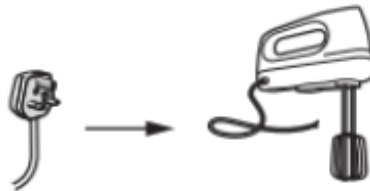
electrical energy → _____ energy

b. lamp:



electrical energy → _____ and _____ energy

c. food mixer:



electrical energy → _____, _____ and _____ energy

2. Look at the picture of a firework display.

Fireworks transfer different types of energy into the environment.

Write down **two** of these types of energy.

a. _____

b. _____



3. Observe the picture below and fill in the blanks with the correct words.

The _____ energy is transferred
from the heat source to the
_____, then to the _____
which starts to boil.



4. Tick to show if these sentences are **true** or **false**.

| | True | False |
|--|--------------------------|--------------------------|
| a. Energy can be made. | <input type="checkbox"/> | <input type="checkbox"/> |
| b. Energy cannot be lost. | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Energy cannot be destroyed. | <input type="checkbox"/> | <input type="checkbox"/> |
| d. Energy can be transferred. | <input type="checkbox"/> | <input type="checkbox"/> |
| e. An object that is not moving doesn't have energy. | <input type="checkbox"/> | <input type="checkbox"/> |

5. Which of the following energy transfers occurs:

Circle two options for each question.

a. when you **play a video** on your computer?

Electrical energy is transferred to sound energy.

Electrical energy is transferred to light energy.

Heat energy is transferred to light energy.

b. when you **hammer a nail into the wall?**

Heat energy is transferred to sound energy.

Sound energy is transferred to the surrounding environment.

Kinetic energy is transferred from the hammer to the nail making it move.

c. when Johnny **stands next to a burning candle?**

Sound energy is transferred into light energy.

Light energy is transferred to the surroundings.

Heat energy is transferred to his body from the flame.

6. Sandra puts some ice cubes in her hot drink. Circle two correct answers.

a. Heat is transferred from the hot drink to the ice cubes.

b. Heat is transferred from the ice cubes to the hot drink.

c. The temperature of her drink will decrease.

d. The temperature of her drink will increase.

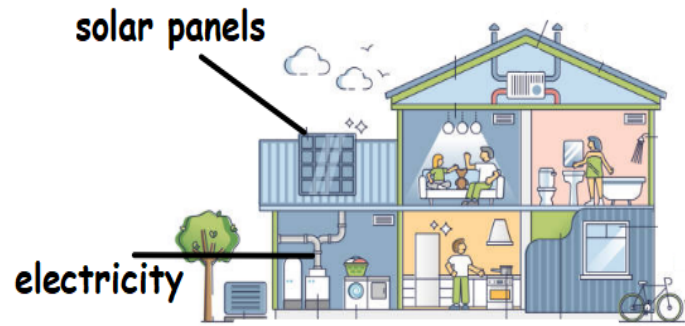
7. Willy went to the cinema to watch the Wonka movie.

a. What type of energy is transferred from the speakers to Willy's ears?

b. What type of energy is transferred from the screen to Willy's eyes?

8. Suzy wonders why solar panels are on the roof of her house.

Explain to Suzy how solar panels work.



9. Fill in the blanks.

_____ : energy that flows from a hotter object
to a cooler object

_____ : when energy moves from one place to
another or change form one from to another

_____ : energy that we can hear

_____ : energy that our eyes can see

_____ : devices that collect energy from
the Sun and change it to other types of energy