

Date: _____

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

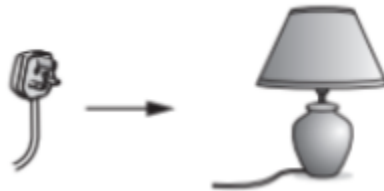
1. Objects in our homes transfer electrical energy into other types of energy. Write the correct type of energy transferred in the blanks.

a. cooker:



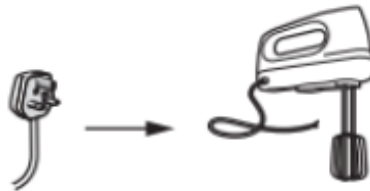
electrical energy → heat energy

b. lamp:



electrical energy → light and heat energy

c. food mixer:



electrical energy → sound, heat and light 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. sound

b. light



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

The heat energy is transferred
from the heat source to the
pan, then to the water
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 checked="" type="checkbox"/>
b. Energy cannot be lost.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c. Energy cannot be destroyed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d. Energy can be transferred.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e. An object that is not moving doesn't have energy.	<input type="checkbox"/>	<input checked="" 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.

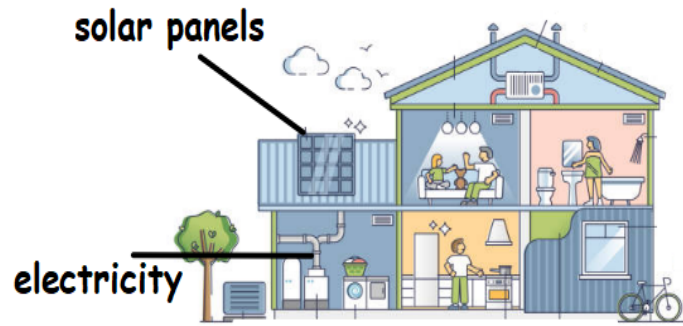
7. Willy went to the cinema to watch the Wonka movie.

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

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

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

Explain to Suzy how solar panels work.



Light energy from the Sun is transferred to the solar panels and stored in the cells as electricity.

3. Fill in the blanks.

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

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

sound : energy that we can hear

light : energy that our eyes can see

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