

Date: _____

Chapter 6, lesson B: Energy Transfer (6.B.1)

1. Which of these sentences about energy is/are correct?

Tick (✓) the correct box beside each sentence.

	True	False
a. Energy can be destroyed or used up.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. Energy can be transferred from one object to another but not to the environment.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. Energy cannot be made or lost.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

2. The picture shows solar panels on the roof of a house.

The solar panels are used to heat water in the house.

Complete the sentences using the following words.

light heat Sun



a) Light from the Sun is transferred to the solar panels.

b) The energy is then transferred to the water as heat.

3. In which examples is the energy transferred to the surrounding environment as sound?

Circle the **two** correct answers.

pressing a doorbell

strumming a guitar

turning on a lamp

4. Sara is using a heater to warm her room.

a. What happens to the temperature of the room?
The temperature increases.

b. What causes the temperature of the room to change?

Describe using the transfer of energy.

Heat is transferred from the heater to the surrounding environment of the room.

This causes the temperature of the room to increase.

5. Andrew sits on a swing. He moves his legs backward and forward.

Describe how this makes the swing move.

When Andrew moves his legs, energy from his legs is transferred to the swing.

This makes the swing move.

6. Joelle has a lit candle.

a. Circle the correct sentence about the light

energy from the flame.

Light energy is destroyed.

Energy is transferred to light energy.

Light energy is lost.

Light energy is made by the candle.

b. Joelle says, 'I **see, hear and feel**. I am able to detect light energy.'

Write down two other types of energy she can detect.

sound

and **heat**

