

Date: _____

Chapter 6, lesson A: Sound, Light and Heat (6.A.1)

1. Is energy present in these items?

Tick (✓) the correct boxes.

| Item | Energy is present | Energy is not present |
|--------|-------------------|-----------------------|
| Chair | ✓ | |
| Heat | ✓ | |
| Light | ✓ | |
| Shadow | | ✓ |
| Spoon | ✓ | |
| Sound | ✓ | |

2. **Circle** the correct answer.

The faster/ slower the particles move in an object, the more heat there is.

3. Kenny says that energy is present all around us. Explain his statement.



Yes, he is correct. All matter is made up of particles that are constantly moving.

Energy is present in the moving particles, so energy is present in all matter.

Thus, energy is present all around us.

4. Energy is present in all matter.

Look at the objects below.

| | | | |
|---|---|--|---|
|  |  |  |  |
| burning <u>candle</u> | <u>hair dryer</u> that is switched on | <u>television set</u> that is switched on | <u>kettle</u> with boiling water |

Complete the table by writing **two** objects in each column.

Choose from the objects above.

| Objects that give off light | Objects that give off heat | Objects that give off sound |
|---|--|--|
| -burning candle -television set that is switched on | -burning candle -hair dryer that is switched on -kettle with boiling water | -hair dryer that is switched on -television set that is switched on |

5. The picture shows a lamp that is switched on.

Describe how energy is present in the lamp.



When a lamp is switched on, energy is present in light and heat.