

Science Activity I

WALT: understand what thermal conductors and insulators are.

Quiz Answers

1. Choose the correct word to complete this sentence.

Thermal conductors allow _____ to move through them.

- a) water
- b) heat**
- c) air

2. True or false.

Plastic is a good thermal conductor.

- a) True
- b) False**

Plastic is a good thermal **insulator** as it does not allow heat to pass through it.

The handles of saucepans are often made from plastic to protect your hand from the heat.

3. Which of these statements is true?

- a) Heat always travels to a warmer place.
- b) Heat does not travel; it stays in one place.
- c) Heat always travels from a warmer place to a cooler one.**

4. Why is a scarf a good thermal insulator?

A scarf is a good thermal insulator because it stops the heat from your body escaping into the cold air.

5. A wooden spoon is an example of a:

a) Thermal conductor

b) Thermal insulator

Explain your answer:

Wood does not allow heat to travel through it. Wooden spoons are used in cooking so that you do not burn your hand.

6. True or false.

Metals are good thermal conductors.

a) False

b) True

Metals are very good thermal conductors. We use metals such as steel and aluminium to make objects that need to heat up quickly. For example, saucepans are made of metal so that we can heat and cook food effectively.