



KNOWLEDGE ORGANISER

SCIENCE: EVERYDAY MATERIAL

YEAR FIVE

KEY KNOWLEDGE:

QUESTION 1: What is a Thermal Insulator?

ANSWER

- Materials that do not let heat move through them easily (they do not conduct heat well) are called **thermal insulators**.
- Plastics, wood and some fabrics are good thermal insulators.
- Thermal insulators are good at keeping heat out **and** keeping heat in. Your winter scarf is a good example of a thermal insulator. It stops the heat from your body escaping into the cold air.
- Plastic is a good example of a thermal insulator. It can be used as a handle on a saucepan - the plastic stops the heat from travelling to your hand.

QUESTION 2: What is a Thermal Conductor?

ANSWER

Some materials let heat move through them easily (they conduct heat well). These materials are called **thermal conductors**.

Metals (for example, steel and aluminium) are good thermal conductors. We use metals to make objects that need to conduct heat well. For example metal saucepans conduct heat well so the food inside heats up quickly.