

# P2 - ENERGY TRANSFER BY HEATING 2.1 Energy transfer b

## Aiming for Grade 4

What is meant by a "good thermal conductor"?

A material that allows heat to pass through it quickly

What is meant by a "good thermal insulator"?

A material that does not allow heat to pass through it quickly

List the materials in the most appropriate group

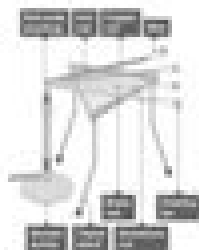
Copper, Glass, Plastic, Wood, Steel, Aluminium, Rubber, Brass

Good thermal conductor	Good thermal insulator
Copper Steel Aluminium Brass	Glass Plastic Wood Rubber

In the experiment, four metal rods are with a blob of wax and a drawing pin on the end are heated at the other end with a Bunsen burner.

Rank in order which metal is the best thermal conductor.

Copper, Aluminium, Brass, Iron



How would you determine which metal is the best thermal conductor?

The metal whose wax melted first and the pin dropped first

Assessment  
Grade 4

## Aiming for Grade 6

An experiment was carried out where metal cans containing hot water were allowed to cool. Each can had a different insulating material wrapped around them.

Here are the results:

Insulator	Starting temperature ( $^{\circ}\text{C}$ )	Temperature after 300s ( $^{\circ}\text{C}$ )
Paper	60	51
Cotton wool	60	56
Foil	60	49
Felt	60	54

Which material is the most conductive?

Foil

Which material is the most insulating?

Cotton wool

When a substance is heated, what happens to the particles?

The particles vibrate more and move around more. They gain kinetic energy

A good insulator needs to be a material with low thermal conductivity. This means that thermal energy transfer is as low as possible.

Metals are good conductors but plastics are good insulators so are a good choice for making insulating materials.

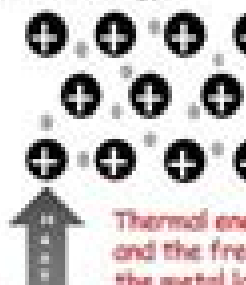
Metals, Conductivity, Plastics, energy, low

Assessment  
Grade 6

1. I can analyse temperature change data to compare the thermal conductivity of materials. □

## Aiming

Use the diagram to explain thermal conductors. You electrons, ions, lattice thermal energy



Thermal energy and the free electrons in the metal lattice vibrate more and move around more. The ions vibrate more and move around more through the metal.

Explain what is meant by Similar results can be obtained from an experiment with the same materials. Explain what is meant by Similar results can be obtained from the same or a different experiment.

Explain why you would use a copper bottom and a plastic handle on a saucepan. Copper is more conductive than plastic. The metal conducts the heat to the plastic handle so the handle does not get too hot to pick up the hot saucepan.

Assessment  
Grade 8

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**BM King**



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