# P2 - ENERGY TRANSFER BY HEATING 2.1 Energy transfer b

### Aiming for Grade 4

## Aiming for Grade 6

### Aiming

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, Bress

| Good thermal conductor | Good thermal insulator |
|------------------------|------------------------|
| Copper                 | Gloss                  |
| Steel                  | Plastic                |
| Aluminum               | Wood                   |
| Bricss                 | Pubber                 |

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

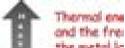
| Insulator   | Starting<br>temperature (*C) | Temperature<br>after 300s (*C) |
|-------------|------------------------------|--------------------------------|
| Paper.      | 60                           | 51                             |
| Cotton wool | 60                           | 56                             |
| Foil        | 60                           | 49                             |
| Felt        | 60                           | . 54                           |

Which material is the most conductive? Fall

Which material is the most insulating? Cotton wool Use the diagram to exp thermal conductors. Ya electrons, ions, lattice thermal energy







the metal lo The ions vibrate more a the lattice more transfi through the metal.

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, Bross, Iron



The metal whose wax melted first and the pin dropped first

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

Explain what is meant by Similar results can be of experiment with the sam Explain what is meant by Similar results can be of the same or a different.

Explain why you would m a copper bottom and a p Copper is more conducti more quickly. The metall conducts the heat to ca plastic handle is an insul can pick the hot saucep-

## Assessment

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

Assessment Grade 4

Assessment

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