

# 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<br>Steel<br>Aluminium<br>Brass | Glass<br>Plastic<br>Wood<br>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

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

## Aiming

Use the diagram to explain thermal conductors. Use 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 cooking spoon. Copper is more conductive than plastic. The metal conducts the heat to the plastic handle so the handle does not get too hot to hold.

Assessment  
Grade 8

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## **Table of Contents Aqa Physics P2 Isa 2013 Mark Scheme**

1. Understanding the eBook Aqa Physics P2 Isa 2013 Mark Scheme
  - The Rise of Digital Reading Aqa Physics P2 Isa 2013 Mark Scheme
  - Advantages of eBooks Over Traditional Books
2. Identifying Aqa Physics P2 Isa 2013 Mark Scheme
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Aqa Physics P2 Isa 2013 Mark Scheme
  - User-Friendly Interface
4. Exploring eBook Recommendations from Aqa Physics P2 Isa 2013 Mark Scheme
  - Personalized Recommendations
  - Aqa Physics P2 Isa 2013 Mark Scheme User Reviews and Ratings
  - Aqa Physics P2 Isa 2013 Mark Scheme and Bestseller Lists
5. Accessing Aqa Physics P2 Isa 2013 Mark Scheme Free and Paid eBooks

- Aqa Physics P2 Isa 2013 Mark Scheme Public Domain eBooks
  - Aqa Physics P2 Isa 2013 Mark Scheme eBook Subscription Services
  - Aqa Physics P2 Isa 2013 Mark Scheme Budget-Friendly Options
6. Navigating Aqa Physics P2 Isa 2013 Mark Scheme eBook Formats
- ePub, PDF, MOBI, and More
  - Aqa Physics P2 Isa 2013 Mark Scheme Compatibility with Devices
  - Aqa Physics P2 Isa 2013 Mark Scheme Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Aqa Physics P2 Isa 2013 Mark Scheme
  - Highlighting and Note-Taking Aqa Physics P2 Isa 2013 Mark Scheme
  - Interactive Elements Aqa Physics P2 Isa 2013 Mark Scheme
8. Staying Engaged with Aqa Physics P2 Isa 2013 Mark Scheme
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Aqa Physics P2 Isa 2013 Mark Scheme
9. Balancing eBooks and Physical Books Aqa Physics P2 Isa 2013 Mark Scheme
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Aqa Physics P2 Isa 2013 Mark Scheme
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Aqa Physics P2 Isa 2013 Mark Scheme
- Setting Reading Goals Aqa Physics P2 Isa 2013 Mark Scheme
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Aqa Physics P2 Isa 2013 Mark Scheme
- Fact-Checking eBook Content of Aqa Physics P2 Isa 2013 Mark Scheme
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development

- Exploring Educational eBooks

#### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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