

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

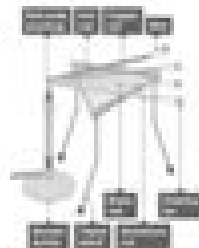
Copper, Glass, Plastic, Wood, Steel, Aluminium, Rubber, Brass

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

- 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. The ions vibrate more and the lattice more transfer 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 for a saucepan. Copper is more conductive than plastic. The metal conducts the heat to the plastic handle is an insulator so it can pick the heat away from the metal.

Assessment
Grade 8

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Table of Contents P2 Physics 2013 May 23rd Mark Scheme

1. Understanding the eBook P2 Physics 2013 May 23rd Mark Scheme
 - The Rise of Digital Reading P2 Physics 2013 May 23rd Mark Scheme
 - Advantages of eBooks Over Traditional Books
2. Identifying P2 Physics 2013 May 23rd 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 P2 Physics 2013 May 23rd Mark Scheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from P2 Physics 2013 May 23rd Mark Scheme
 - Personalized Recommendations
 - P2 Physics 2013 May 23rd Mark Scheme User Reviews and Ratings
 - P2 Physics 2013 May 23rd Mark Scheme and Bestseller Lists
5. Accessing P2 Physics 2013 May 23rd Mark Scheme Free and Paid eBooks

- P2 Physics 2013 May 23rd Mark Scheme Public Domain eBooks
 - P2 Physics 2013 May 23rd Mark Scheme eBook Subscription Services
 - P2 Physics 2013 May 23rd Mark Scheme Budget-Friendly Options
6. Navigating P2 Physics 2013 May 23rd Mark Scheme eBook Formats
- ePub, PDF, MOBI, and More
 - P2 Physics 2013 May 23rd Mark Scheme Compatibility with Devices
 - P2 Physics 2013 May 23rd Mark Scheme Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of P2 Physics 2013 May 23rd Mark Scheme
 - Highlighting and Note-Taking P2 Physics 2013 May 23rd Mark Scheme
 - Interactive Elements P2 Physics 2013 May 23rd Mark Scheme
8. Staying Engaged with P2 Physics 2013 May 23rd Mark Scheme
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers P2 Physics 2013 May 23rd Mark Scheme
9. Balancing eBooks and Physical Books P2 Physics 2013 May 23rd Mark Scheme
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection P2 Physics 2013 May 23rd Mark Scheme
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine P2 Physics 2013 May 23rd Mark Scheme
- Setting Reading Goals P2 Physics 2013 May 23rd Mark Scheme
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of P2 Physics 2013 May 23rd Mark Scheme
- Fact-Checking eBook Content of P2 Physics 2013 May 23rd 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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