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 | Rubber |

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 (*C) | Temperature after 300s (*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 Use the diagram to exp thermal conductors. Ya electrons, ions, lettics thermal energy

Thermal ene and the free the metal is.

the metal lo The ions vibrate more a the lattice more transf 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 Bursen burner.

Rank in order which metal is the best thermal conductor.

Copper, Aluminium, Bross, Iron

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

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 ob experiment with the san 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

P2 Physics 2013 May 23rd Mark Scheme

Judd E. Hollander

P2 Physics 2013 May 23rd Mark Scheme:

Decoding P2 Physics 2013 May 23rd Mark Scheme: Revealing the Captivating Potential of Verbal Expression

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- 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
 - o 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
 - o 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
 - o 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
 - $\circ\,$ 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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