

Question number	Answer	Marks	Guidance
1 a	plastic is a poor conductor of energy (conductivity) (or is a good insulator) so the handle does not become hot when the iron is hot the base is metal because metal is a good conductor of energy (or has high thermal conductivity) and it has a low specific heat capacity so it becomes hot quickly	1 1 1 1	
1 b	the layers of insulation reduce energy transfer by conduction from the inside of the house to the outside so less energy from the heating system is needed to keep warm and therefore energy bills are reduced	1 1	
1 c	paper is a poor conductor of energy (or has low thermal conductivity, or is a good insulator) so it reduces energy transfer from the surroundings to the ice cream	1 1	
2 a i	conduction through plate	1	
2 a ii	radiation (and convection) through air	1	
2 b	the increase surface area of heat sink larger surface area means more energy lost due to radiation and convection from plate	1 1	
2 c	greater density of material so larger mass of heat sink for same volume greater mass and specific heat capacity of material so lower temperature increase for given amount of energy transfer copper ∴ better choice unless mass of aluminium much greater than mass of copper	1 1 1 1 1	
3 a	wool good insulator as fibres trap dry air which is good insulator inside of clothing becomes warm due to radiation from body body stays warm because clothing does not conduct heat energy away	1 1 1 1	

Question number	Answer	Marks	Guidance
3 b	in cold weather, radiation from exposed skin causes energy transfer from head hair is insulator containing trapped air so reduces energy transfer by conduction wearing hat reduces radiation from exposed parts of scalp and reduces conduction by providing extra insulation	1 1 1	
4 a	both axes correctly labelled suitable scales chosen all points correctly plotted two best fit curves drawn and labelled	1 1 1 1	
4 b	unwrapped tube: 40 to 42 s wrapped tube: 80-82 s	1 1	
4 c i	the time taken would be longer because the insulation is thicker and therefore the rate of transfer of energy from the tube would be less and the mass (or volume) of water is the same so it would cool at a slower rate	1 1 1	
4 c ii	the time taken would be less because the insulation has greater thermal conductivity so the rate of transfer of energy from the water would be greater and the mass (or volume) of water is the same so it would cool at a faster rate	1 1 1	
4 d i	the rate of cooling (or change of temperature per second) would differ if the volume had been different as the mass (or volume) of water affects the rate of cooling	1 1	
4 d ii	the rate of transfer of energy from the water depends on its temperature if the starting temperature differed, the rate of transfer of energy (or the rate of change of temperature) would differ at any given time	1 1	

# Aqa Summary Questions Answers Physics

**Yan Bai**



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### **Table of Contents Aqa Summary Questions Answers Physics**

1. Understanding the eBook Aqa Summary Questions Answers Physics
  - The Rise of Digital Reading Aqa Summary Questions Answers Physics
  - Advantages of eBooks Over Traditional Books
2. Identifying Aqa Summary Questions Answers Physics
  - 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 Summary Questions Answers Physics
  - User-Friendly Interface
4. Exploring eBook Recommendations from Aqa Summary Questions Answers Physics
  - Personalized Recommendations
  - Aqa Summary Questions Answers Physics User Reviews and Ratings
  - Aqa Summary Questions Answers Physics and Bestseller Lists

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