

Specific Heat

DIRECTIONS: Use formula $q = (m)(\Delta T)(C)$ to solve the following problems. Show all work and units. Use <http://websiteschools.com> for specific heat of various substances.

1. A 30g piece of metal absorbs 1,200 joules of heat energy and its temperature change from 25°C to 175°C. Calculate the specific capacity of the metal. What is the likely metal?
2. How many joules of heat are needed to raise the temperature of 15.0 g of iron from 11°C to 68°C, if the specific heat of iron is 0.45 J/g°C?
3. To what temperature will a 50.0 g piece of brass raise if it absorbs 6 kilojoules of heat and its specific heat capacity is 0.38 J/g°C? The initial temperature of the brass is 20.0°C.
4. Identify the substance if 1500.0 g of the substance absorbs 74,500 joules of heat, and its temperature changes from 25°C to 47°C.
5. 100.0 g of 1.0°C water is heated until its temperature is 37°C. If the specific heat of water is 4.18 J/g°C, calculate the amount of heat energy needed to cause this rise in temperature.
6. 25.0 g of antimony is heated from 30°C to 160°C, and absorbs 750 joules of heat in the process. Calculate the specific heat capacity of antimony.
7. What is the specific heat capacity of quartz glass if 200.0 g of the glass absorbs 2520 joules of heat and the temperature rises 18.0°C?
8. If a sample of titanium is initially at 25°C, what is its final temperature if 250.0 g of titanium absorbs 1.0 kilojoules of heat, and the specific heat of titanium is 0.523 J/g°C?
9. How much energy must be absorbed by 300.0 g of steel to increase its temperature from 100.0°C to 450.0°C? (C of steel = .48 J/g °C)
10. When 55.0 g of platinum drops its temperature from 300.0°C to 250.0°C, how much heat energy is released? (C of platinum = .133 J/g °C)
11. How much energy is required to heat 125.0 g of lithium from 2.0°C to 30.0°C? (C of lithium = 3.6 J/g°C)
12. How much heat (in kJ) is given out when 350.0 g of lead cools from 200.0°C to 30.0°C?

Practice Problems For Specific Heat

Amar Nath Bhutani



Practice Problems For Specific Heat:

Practice Problems For Specific Heat Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Practice Problems For Specific Heat**, a literary masterpiece that delves deep in to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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Table of Contents Practice Problems For Specific Heat

1. Understanding the eBook Practice Problems For Specific Heat
 - The Rise of Digital Reading Practice Problems For Specific Heat
 - Advantages of eBooks Over Traditional Books
2. Identifying Practice Problems For Specific Heat
 - 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 Practice Problems For Specific Heat
 - User-Friendly Interface
4. Exploring eBook Recommendations from Practice Problems For Specific Heat
 - Personalized Recommendations
 - Practice Problems For Specific Heat User Reviews and Ratings
 - Practice Problems For Specific Heat and Bestseller Lists
5. Accessing Practice Problems For Specific Heat Free and Paid eBooks

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