
The Hand Warmer Design Challenge: Where Does the Heat Come From?

Central Challenge

Use chemistry to design an effective, safe, environmentally benign, and inexpensive hand warmer. The ideal hand warmer increases in temperature by 20°C (but no more) as quickly as possible, has a volume of about 50 mL, costs as little as possible to make, and uses chemicals that are as safe and environmentally friendly as possible. Carry out an experiment to determine which substances, in what amounts, to use in order to make a hand warmer that meets these criteria.

Context for This Investigation

Have your fingers ever been so cold they felt numb? Wouldn't it be great if you could generate heat to warm your hands up anytime you want to? That's exactly what a "hand warmer" does. Hand warmers are small packets that people put inside gloves or mittens on cold days to keep their fingers warm. They are very popular with people who work outside in winter or engage in winter sports. One type of hand warmer contains water in one section of the packet and a soluble substance in another section. When the packet is squeezed the water and the soluble substance are mixed, the solid dissolves and the packet becomes warm. In this experiment, students will learn how a hand warmer works and use chemistry to design an effective, safe, environmentally benign, and inexpensive hand warmer.

Pre-lab Preparation

An animation showing the dissolution of an ionic compound on the particulate level can be found on the website Chemistry Experiment Simulations and Conceptual Computer Animations:

<https://chemdemos.uoregon.edu/demos/Calorimetry-Heat-of-Solution-Computer-Simulation>

After viewing the animation, answer the following questions with your group:

1. Describe the changes you observe in the animation, including changes in the bonds and particulate attractions and changes in the amount of disorder in the system.
2. When sodium chloride is dissolved in water, the temperature of the resulting solution is lower than the temperature of the water before the salt dissolves. How can this result be explained based on the bond breaking and bond making that is occurring?
3. Why do some salts, such as sodium chloride, dissolve spontaneously even though the process is endothermic overall?
4. When some ionic salts are dissolved in water, the temperature of the resulting solution is higher than the temperature of the water before the salt dissolves. What do you think determines whether the resulting solution is cooler or warmer than the starting water?

Hand Warmer Design Challenge Lab Report

Minjie Lin



Hand Warmer Design Challenge Lab Report:

This book delves into Hand Warmer Design Challenge Lab Report. Hand Warmer Design Challenge Lab Report is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Hand Warmer Design Challenge Lab Report, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Hand Warmer Design Challenge Lab Report
 - Chapter 2: Essential Elements of Hand Warmer Design Challenge Lab Report
 - Chapter 3: Hand Warmer Design Challenge Lab Report in Everyday Life
 - Chapter 4: Hand Warmer Design Challenge Lab Report in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Hand Warmer Design Challenge Lab Report. This chapter will explore what Hand Warmer Design Challenge Lab Report is, why Hand Warmer Design Challenge Lab Report is vital, and how to effectively learn about Hand Warmer Design Challenge Lab Report.
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 5. In chapter 4, this book will scrutinize the relevance of Hand Warmer Design Challenge Lab Report in specific contexts. The fourth chapter will explore how Hand Warmer Design Challenge Lab Report is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Hand Warmer Design Challenge Lab Report. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Hand Warmer Design Challenge Lab Report.

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Table of Contents Hand Warmer Design Challenge Lab Report

1. Understanding the eBook Hand Warmer Design Challenge Lab Report
 - The Rise of Digital Reading Hand Warmer Design Challenge Lab Report
 - Advantages of eBooks Over Traditional Books
2. Identifying Hand Warmer Design Challenge Lab Report
 - 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 Hand Warmer Design Challenge Lab Report
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hand Warmer Design Challenge Lab Report
 - Personalized Recommendations
 - Hand Warmer Design Challenge Lab Report User Reviews and Ratings
 - Hand Warmer Design Challenge Lab Report and Bestseller Lists
5. Accessing Hand Warmer Design Challenge Lab Report Free and Paid eBooks
 - Hand Warmer Design Challenge Lab Report Public Domain eBooks
 - Hand Warmer Design Challenge Lab Report eBook Subscription Services
 - Hand Warmer Design Challenge Lab Report Budget-Friendly Options
6. Navigating Hand Warmer Design Challenge Lab Report eBook Formats
 - ePub, PDF, MOBI, and More
 - Hand Warmer Design Challenge Lab Report Compatibility with Devices
 - Hand Warmer Design Challenge Lab Report Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hand Warmer Design Challenge Lab Report
 - Highlighting and Note-Taking Hand Warmer Design Challenge Lab Report
 - Interactive Elements Hand Warmer Design Challenge Lab Report

8. Staying Engaged with Hand Warmer Design Challenge Lab Report
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hand Warmer Design Challenge Lab Report
9. Balancing eBooks and Physical Books Hand Warmer Design Challenge Lab Report
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hand Warmer Design Challenge Lab Report
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hand Warmer Design Challenge Lab Report
 - Setting Reading Goals Hand Warmer Design Challenge Lab Report
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hand Warmer Design Challenge Lab Report
 - Fact-Checking eBook Content of Hand Warmer Design Challenge Lab Report
 - 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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