

Penny Lab at home

Name: _____ partner: _____

The United States penny has been made of 95% copper from 1980 - 1982. However, the price of copper had risen so much that the U.S. Treasury decided to change the penny's intended alloy. Starting in 1983, the composition of the penny, 95% of 1982 pennies have been made of mostly zinc, with a thin copper layer on the outside. In this lab, you will determine the % zinc and % copper in a penny. To do this you will take advantage of the activity series of metals, and perform a single replacement reaction on the penny.

Procedure

1. Obtain a clean, unscratched penny (post 1982, the newer the better). You and your lab partner will each need different years so you can tell them apart! Record the years in the data table.
2. Using a file, carefully scratch the edge of your penny in two places, until the zinc core is showing.
3. Weigh each penny. Record the mass.
4. Place each penny in a beaker with ca. 50 mL of HCl. Label the beaker with your names. Remove the bubbling around the filed area. Set beaker aside in designated area.

— Day Two —

5. Decant HCl and rinse penny w/ water. Carefully remove penny & dry w/ paper towel.
6. Once dry, weigh copper shell and record mass.

Calculations / Questions

1. How much zinc was lost in penny 1? _____ g (mass - mass)

2. How much zinc was lost in penny 2? _____ g (mass - mass)

3. What is the % Zn in penny 1?

4. What is the % Zn in penny 2?

5. What is the average % Zn?

6. The actual % Zn in pennies is 2.45. Calculate % error. $(\text{actual} - \text{experimental}) \div \text{actual} \times 100$

7. Write the complete, balanced equation for the chemical reaction you did.

8. Assuming the average penny contains 2.50 g zinc, how much HCl is required to react the all of the zinc, without leaving any EXCESS HCl? (hint: look at stoichiometry section, w/ your teacher's advice before attempting this)



	Penny 1	Penny 2
Your Name:		
Penny Year:		
Initial Mass (g):		
Final Mass (g):		

Analysis Of A Penny Lab Answer Key

Sebastian Brünink

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Table of Contents Analysis Of A Penny Lab Answer Key

1. Understanding the eBook Analysis Of A Penny Lab Answer Key
 - The Rise of Digital Reading Analysis Of A Penny Lab Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Analysis Of A Penny Lab Answer Key
 - 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 Analysis Of A Penny Lab Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Analysis Of A Penny Lab Answer Key
 - Personalized Recommendations
 - Analysis Of A Penny Lab Answer Key User Reviews and Ratings
 - Analysis Of A Penny Lab Answer Key and Bestseller Lists

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