

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 thereafter (US Treasury needed to change the plan intended) (okay maybe it was intended) the composition of the penny. As 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 use 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 portion, w/ your teacher's advice (balanced equation most 4%)



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

Analysis Of A Penny Lab Answer Key

Clifford Lane



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Proceedings ... SPE Annual Technical Conference and Exhibition Society of Petroleum Engineers (U.S.). Technical Conference and Exhibition, 1992

Using Multimedia Technology in Chemistry Pre-laboratory Preparation Jeffrey Glen Yoder, 2002 **Chem C&A Chemla&Min Wksh** McGraw-Hill Education, 1996-08 *Welding Research Council Bulletin Series* Welding Research Council (U.S.), 1979

Final Deadline: Foul Play without a Clue Moses Kery, 2012-03-26 A locked door a dead body A millionaire industrialist dies under suspicious circumstances by an overdose of a prescription medication But there is one peculiar circumstance The victim had contacted his attorney to change his will only days before his demise making the death all the more suspicious Could someone have murdered the man to keep him from rewriting his will Or was the death a suicide or even perhaps an

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