

Density Of Pennies Lab

Purpose

Before 1982, pennies were made out of copper alloy. Since then, they have been made with an outside coating of copper and a inner core of different metals. This lab is to know the density values to identify the metal used in the core of these pennies , of pennies of post-1983 pennies.

Materials

1. Materials used in the lab is 100-mL graduated cylinders

2. triple-beam balance 3. post 1983 pennies 4. ruler

Procedures

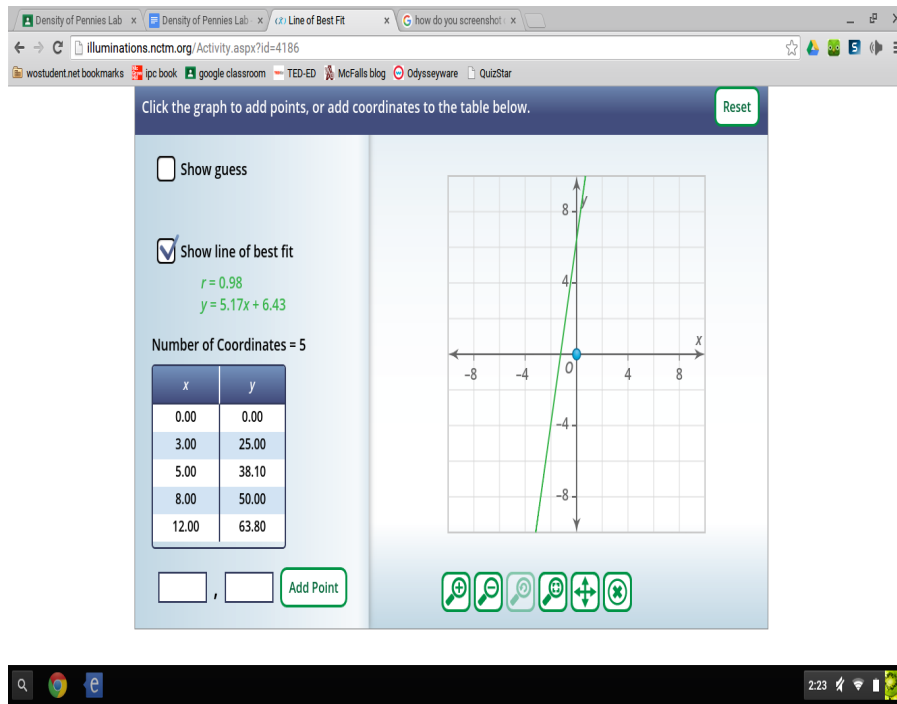
1. Get 4 stacks of different amounts of pennies.
2. Then put one of the stacks of pennies on a triple-beam balance and find the weight.
3. Fill the 100 mL cylinder with however amount of water.
4. Put the stack of pennies in it.
5. Find how much the water has grown.
6. Write both of them down on a graph.
7. Do the other stacks intill your done.

Data

<i>How many pennies</i>	<i>Mass</i>	<i>Volume</i>
<u>10</u>	<u>25g</u>	<u>3m</u>
<u>15</u>	<u>38.1g</u>	<u>5m</u>
<u>20</u>	<u>50g</u>	<u>8m</u>
<u>25</u>	<u>63.8g</u>	<u>12m</u>

Analysis

$63.8 - 50 = 13.8g$ 6.3 slope
 $12 - 8 = 4m$



Conclusion-

The conclusion for the lab is that the metal in the pennies are zinc. Zinc has 7.00 density, the conclusion for the density is 6.3. The conclusion is very close it's .7 from zinc. Could of done the lab several more times to really get a exact result.