Lab #3: Take a Penny, Leave a Penny

Pre-Lab Question:

- Give an example of a single displacement reaction.

Materials:

- 1982 pennies or before
- 25 ml Sodium Hydroxide
- Zinc Metal

Procedure:

1. Take a penny and drop it into the near boiling sodium hydroxide and zinc mixture
2. Let it sit for about two minutes
3. Pull the penny out of the solution with a pair of crucible tongs and drop it into a distilled water beaker.
4. Record the appearance:

5. With the tongs, hold the penny over the Bunsen burner until you observe a color change.
6. Stop heating and let cool on the lab table.
7. Record the appearance:

Procedure II:

1. Repeat the experiment…But change something **(only one)**
    a. Leave in the solution a longer/shorter time.

b. Heat penny longer/shorter time.

2. Summarize what happened:

Post Lab: Leave Space to Answer

1. What do you call a mixture of copper and zinc?
2. What word is used for this mixture?
3. Could you turn other metals into gold if you did the right reaction? Why or why not. (Research about Alchemy).
4. Why do you think you go a different result the second time you did the experiment? Explain what you think happened.

Summary – 1 Paragraph