

Coin Lab

Discover the steps of the scientific method as you complete the lab to answer the posing question.

- **What is the posing question:** Which coin holds the most water; quarter, dime, nickel, or penny?
- **Hypothesis:** If I put water droplets on a coin, then the _____ will hold the most and the _____ will hold the least.
- **Explain the reasoning behind your hypothesis.** _____

- **What is the Manipulated Variable?** _____

- **What is the Responding Variable?** _____

- **What are the controlled variables?** _____

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- Step 1:** Gather your materials
- Eye dropper
 - Beaker of water
 - Paper towel
 - Coins (Penny, Nickel, Dime, Quarter)
- Step 2:** Wash and dry each coin thoroughly.
- Step 3:** Put penny on surface of the desk head set up.
- Step 4:** Slowly and carefully add one drop of water to the top of the penny until the penny overflows. Make sure to keep count of how many water droplets you add to the coin as to record your data accurately.
- Step 5:** Record your data in the table (the # of water droplets the coin could hold.)
- Step 6:** Repeat steps 3-5 using a nickel instead of the penny.
- Step 7:** Repeat steps 3-5 using a dime instead of the penny.
- Step 8:** Repeat steps 3-5 using a quarter instead of the penny.

Coin Name	Penny	Nickel	Dime	Quarter
# of Water Drops				
Total # of droplets				

- Which coin held the most water droplets? _____
- Which coin held the least amount of water droplets? _____
- Explain your conclusion in a paragraph using complete sentences. Was your hypothesis correct or incorrect?
