



Hi! Thank you for visiting thehomeschooldaily.com ! So glad you were able to find a school tool you can use. Please feel free to use this activity for your own personal use or if you are the main teacher in a co-op setting. I provide this free resource to encourage others to homeschool their own.

If you would like to share the file with others, I ask that you share by sending them a link to my website or to the page that hosts the file. Please do not send them a link directly to just the PDF file (the file you are at now).

You may not sell, copy, or alter my files as your own. You may not host my files on your own website without linking them to thehomeschooldaily.com or giving proper attribution to thehomeschooldaily.com .

May you be blessed on your homeschooling journey.

♥ Marie

Coin Lab

The Coin Lab can easily be administered at home. With a short materials list, it is the perfect lab to investigate while sitting at your own kitchen table. The Coin Lab will allow you to practice the scientific method while learning how to collect data. Students are then asked to analyze their data to write a summary of their conclusions.

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?** _____

-
- 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?
