

## Scientific Method: Penny Drop Experiment

**Scientific Question/ problem:**

**Hypothesis:**

**Materials:**

**Procedure:**

1. Place your penny on the paper towel
2. Fill the eyedropper with water
3. Using the eyedropper, begin to place water on the penny one drop at a time.
4. Count how many drops until the water starts to overflow.
5. Fill in data table.
6. Dry off penny and repeat the experiment 3 more times.

**Data:**

Trial Number					
	1	2	3	4	Total
Drops of H <sub>2</sub> O the penny held					

Average Drops: Find the average drops the penny held. (Find the total drops the penny held and divide by 4.) Show your work below.

## **Conclusion:**

## **Post Lab Questions:**

What is the difference between a guess and a hypothesis?

What were some of the variables in this experiment?

If we wanted to compare drops on a penny with tap water to drops on a penny with soapy water, what would the **independent (manipulated)** variable be? What would the **dependent (responding)** variable be?