Name:	#
Date:	Core:

## Lab - Penny Predictions



You will be placing drops of water on various coins with a dropper. First, you will predict how many drops each coin can hold. Then you will count the number of drops each coin holds before the water runs off.





Problem/Question: To what extent does the size of the coin affect the number of drops of water the coin will hold?

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Va	ıria	b	es	:

Independent Variable (what you changed)
Dependent Variable (what you will measure/observe)
Controlled Variables (what stayed the same)

## Procedure:

- 1. Predict how many drops of water the penny will hold. Record your prediction in the table below.
- 2. Drop water in a consistent manner on the penny. Record how many drops it held before the water ran off.
- 3. Dry the penny and repeat step 2 two more times. Record your results below.
- 4. Average your three trials for a more accurate idea of how many drops of water a penny will hold.
- 5. Do the investigation again with the nickel, dime, and quarter. Remember to predict first!

## Data:

Type of Coin	Number of Drops Coin Holds					
	Prediction Trial 1 Trial 2 Trial 3 Average					
Penny						
Nickel						
Dime						
Quarter						

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-	: Analyze the <b>average</b> data for your on a separate sheet of graph paper cklist.	•	
Conclusio	ons: Write your answers in comple	ete sentences.	
	Did your ability to predict improve quarter?		kel, dime, and
2.	If you did improve, why do you thin think you had difficulty with the o	•	prove, why do you
3.	What factors played a part in how coin itself, how you dropped the wo		d? (Think about the
4.	Why did you do three trials for eac coin?	ch coin instead of just d	oing one trial per
5.	In your own words, define prediction	on.	
6.	Predictions are not just simple gue prediction? (Think about when you		

7. What are some changes you could make to this experiment...what other variables could you manipulate that might be interesting to test?