

Name: _____ Period: _____

Viscosity Lab



Vocabulary: viscous -

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Problems: (1) Which liquid is the most viscous? (2) What is the effect of temperature on flow rate? (3) What is the effect of slope on flow rate?

Hypothesis: I think that _____ is the most viscous (sticky) because

_____.

I think that increasing the temperature of a liquid will cause it to flow _____
because _____.

I think that increasing the slope of the dry erase board will cause the liquid to flow _____
because _____.

Materials: beakers with various liquids, pipettes, dry erase board that is taped off, timer, paper towel

Method:

1. Take a small dry erase board and ensure that there is a piece of tape 10cm from the top.
2. Lean the dry erase board up against a wall with a piece of paper towel underneath it.
3. Using one liquid at a time, drop approximately the same amount of each liquid from the pipette at the top of the dry erase board and begin timing.
4. Stop the timer when the liquid reaches the tape mark and record the time in seconds that the liquid took to flow 10cm.
5. Repeat steps 2 and 3 with the hot syrup (Mrs. Harms heated it up for you already).
6. Increase the slope of your board and repeat steps 2 and 3 with the room temperature liquid of your choice. *Be sure to record which liquid you use.*
7. Rinse off your board in the sink and dry it off using paper towels. Clean up any spills at your lab station. Return all lab equipment to its proper location.

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Results:

Liquid:	Water	Alcohol	Oil	Starch	Syrup	Hot Syrup	Slope increase - Liquid chosen _____
Time (s):							

Conclusion:

1. Using the results you recorded in your data table, answer the problem questions.

(1) _____

(2) _____

(3) _____

2. What are two possible sources of error in this lab? _____

