

Title: Viscosity Lab

Purpose: To determine which liquid is the most viscous, by determining various liquids' flow rates and to determine the effect of increasing temperature and slope on flow rate.

Hypothesis:

Materials: Beakers of various liquids, with pipettes for each liquid, dry erase board, ruler, tape, timer, paper towel.

Method:

1. Take a small dry erase board and measure off 10 cm from the top, marking that distance with a piece of masking tape.
2. Using one liquid at a time, put the same amount of each liquid at the top of the dry erase board and begin timing. Stop the timer and record the time (in seconds) that the liquid took to flow 10 cm.
3. Determine the rate of each liquid and add that to your data table. Rate = distance (10 cm)/time.
4. Pick a liquid and heat it up in the microwave and repeat the procedure using the heated liquid. Record the time and calculate the rate. Enter the data on your data table.
5. Increase the slope of your board and repeat the procedure. Make calculations and enter them into the data table.

Results: Make your data table here.

Conclusion: Answer the Purpose questions, using complete sentences.