

Data Sheet

Paper Clip Dropping Results

Prediction:

	Corn syrup	Oil	Water
Trial 1			
Trial 2			
Trial 3			
Average Result			
Viscosity Rating (1–3)			

Rate of Flow Results

Prediction:

	Corn syrup	Oil	Water
Trial 1			
Trial 2			
Trial 3			
Average Result			
Distance			
Flow Rate (distance/time)			

Questions

Write your answers on a separate piece of paper.

- 1 Compare the relative viscosities of the liquids to the speeds with which the liquids moved during your ramp tests. Based on your data, how does the viscosity of the liquid influence the rate at which the liquid flows?
- 2 Nyiragongo is said to have lava that flows “like water.” Based on your investigation, describe the viscosity (extremely viscous or not very viscous) of the lava produced by Nyiragongo.
- 3 How might the viscosity of lava from a volcanic eruption affect the outcome of an evacuation?