The Great Viscosity Race

Test: speed of Corn Syrup, Ketchup, and Vegetable Oi)il as they flow down a paper pla	te.
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\triangleright	Prediction -	Which	will flox	w factact?
\succ	Prediction -	- wnich	will flov	n tastest?

viscosity flows.

/ I rediction which wi	n now lastest.		
Your predictions:			
Winner:	_ 2	3	_
Test each liquid			
	Corn Syrup	Ketchup	Vegetable Oil
Time Trial 1			
Time Trial 2			
Trial Trial 3			
Actual results:			
Winner: 2.		_ 3	
1. How do you think temper	ature might affect th	ne viscosity of a liquid?	
2. If you could do this exper	iment again, what th	ree liquids might you	test?
3. What is one way you coul	d slow the viscosity	of a liquid?	
4. How does this experimen	t relate to different l	ava flows?	
5. Based on your data, how diquid flows?	does the viscosity of	the liquid influence ho	ow fast or slow the
6. The volacano, Nyiragongo, is said to have lava that flows "like water." Describe the viscosity of the lava produced by Nyiragongo.			
7. How might lava flows with a high viscosity effect people and the environment?			
3. How might lava flows with a low viscosity effect people and the environment?			ronment?

9. In your own words compare the difference between high viscosity flows versus low

Volcano Construction

Using the Volcano Worksheet, construct each of the three types of volcanoes, using the darker color Play Dough for the cinder and the brighter color Play Dough for the lava.

Summary	Questions:	(Pages	148-154	will help))
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1.	What is the difference between lava and magma?
2.	How far can lava flow before it cools and hardens? (pg. 48)
3.	What do nonexplosive eruptions mostly produce?
4.	What do explosive eruptions mostly produce?
5.	What is pyroclastic material?
6.	What is pillow lava?
7.	How fast did the volcanic gases and ash speed downhill during the 1991 eruption of Mount Pinatub?
8	Which type of eruption forms cinder cone volcanoes? (explosive or nonexpolsive?)
9.	Which type of eruption forms shield volcanoes?
10	. Which type of eruption forms composite volcanoes?