

Grade 8 Science

Unit 3: Fluids and Viscosity

Core Lab Activity 7-2B pg. 282-3

“The Flow Rate of Liquids”

Name: _____

Section #: _____

Purpose: How can you compare the flow rates of various liquids?

Materials:	ramp made of smooth material	stack of books
	thermometer	measuring spoon
	stopwatch	rubber gloves
	wax pencil	tape
	paper towels	soap for cleaning
	water	2 “testing” liquids

Procedure: Refer to text Pages 282-3

Hypothesis: (Which liquid do you believe will have the fastest flow rate? The slowest?) 2 marks

Independent Variable: (1 mark) _____

Dependent Variable: (1 mark) _____

Controls: (provide at least 4) (2 marks) _____

Observations: (6 marks)

Liquid	Time (s)	Flow Rate (cm/s)	Ranked Flow Rate	Ranked Viscosity
Water				

Analysis:

1. Describe two sources of error that may have affected your results. How could you reduce these errors? (4 marks)

2. How is the rate of flow of a liquid related to its viscosity? (2 marks)
