Science 8

TOPIC 4: Flow Rate & Viscosity (p40- 49)

ASSIGNMENT due: Monday October 6 P1

1. The following data was collected from several different experiments.

Substance	Flow Distance (cm)	Time (s)	Flow Rate	Rank
1	24	2		
2	14	2		
3	81	9		
4	22	7		
5	10	2		

   a. Calculate the flow rate of the substances and place it in the space in the table.

   b. Rank the substances ranging from highest viscosity (1) to lowest viscosity (5)

2. An experiment can test how many variables?

3. What is the “responding variable”?

4. What is a manipulated variable?

5. What happens to the viscosity of a liquid when it is heated?

6. Describe what happens to gas particles when it is cooled. What happens to its viscosity?

7. What is internal friction?

8. Draw a diagram that shows internal friction.