

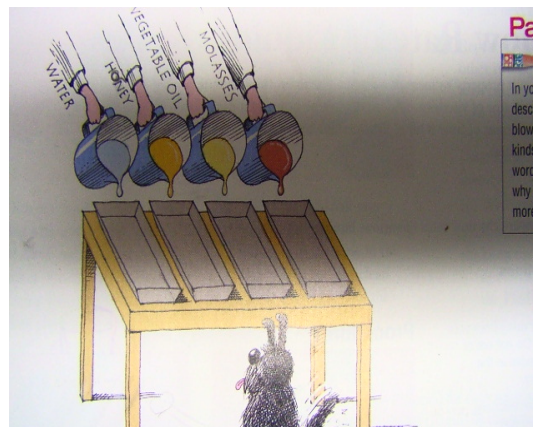
Page 116 in Textbook "Science Power 8"

Answer question #1,2,3,4,5
20 minutes

Went over as a class

How fast do fluids flow?

Some liquids flow faster than others (Water flows faster than maple syrup)



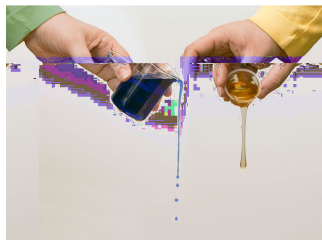
Flow Rate is the speed at which a fluid flows from one point to another
-done by measuring the time it takes for the fluid to flow from one point to another (its distance),

Slow	Medium	Fast
Corn syrup	Dishwashing liquid	Water

Just like certain variables can slow you down in a race, certain variables can cause a fluid to slow down.

Viscosity

- A measure of a liquid's resistance to flow.
- The thickness or thinness of a fluid.
- A fluid that is viscous is the one that is NOT "runny" (flows slowly, is thick).



Which is more viscous?

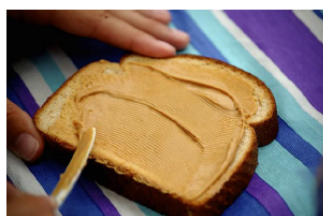
Think about cough syrup...

Needs to be thick to coat the throat but needs to be thin enough to swallow.

Think about the chocolate covering on chocolate bars..

Needs to be melted and able to pour over the nugget

VISCOSITY IS IMPORTANT IN OUR EVERYDAY LIFE.



FLOW RATE OF LIQUIDS PAGE 118-119
Investigation Project

5 - Groups of 5

2 - Groups of 6

FLOW RATE OF LIQUIDS PAGE 118-119
Investigation Project

5 - Groups of 5

2 - Groups of 6

- Mollasses → 21.21 seconds (4)
- Veg oil → 2.21 seconds (2)
- Motor oil → 2.08 seconds (1) ← moved fastest
- honey → 1 min 20 seconds (5) ← slowest
80 seconds
- Detergent → 3.83 seconds (3)

Motor oil \rightarrow 2.08 s travelled 10 cm

$$\text{Flow Rate} = \frac{10 \text{ cm}}{2.08 \text{ s}} = 4.80 \text{ cm/s}$$