## Grade 8 Science - Fluids Some Characteristics and Phenomenon

Name:	Class:	Date:	
Use the following words from your vocab most sense: Viscosity, Flow Rate, Cohes	-	_	-
How thick a fluid is known as the	VISCOSITY	of th	e fluid.
The viscosity of a fluid is determined	through that fluid	s <u>FLOW RAT</u>	<u> </u>
The <u>VISCOSITY</u> of a liquid is clos	ely related to the f	fluid's <u>FLOW</u>	RATE .
The internal attraction of a fluid's pa	articles is referred	to as	
When particles of a fluid attract the call this <u>ADHESION</u> .	mselves to particle	es of something	g else we
Milk residue left on a glass after cons	sumption is an exa	mple of <u>ADHES</u>	ION .
Balancing a paperclip carefully on theCOHESION (SURFACE TENSION)_		ainer of water is	s an example of
The wicking of wax up the wick of a lead to	burning candle is		
The formation of raindrops as water COHESION (SURFACE TENSION)	-	S	
Water wetting a sponge or rag is an	example of		
ADHESION .			
A honey spoon uses what characteris	stics of fluids:		7
ADHESION and COHESION	I/VISCOSITY		

## Fill in the information from the video that you see at the following link:

https://youtu.be/P\_iQ1B9UwpU

Explain the three factors that affect Viscosity:

STRENGTH OF INTERMOLECULAR FORCES



- 2. SIZE AND SHAPE OF MOLECULE
- 3. TEMPERATURE

Explain why water forms droplets on glass and in air differently:

On glass, it is adhesion since it is interacting with another material but in a raindrop, the water is interacting with only other water molecules and it creates surface tension.

Explain why the surface curves differently when water or mercury are placed in a glass container:

Water molecules interact preferentially with the glass through adhesion greater than cohesion. Mercury has greater cohesive forces and that is why it is relatively less adhesion forces and greater cohesive forces and therefore the curve is upward and not down like in water.

Explain why a paper clip or bug stays on top of the water (ask for demonstration).

A paperclip can stay on top of the water due to the cohesive bonds between water molecules. This tight bond creates surface tension that acts like a stretched rubber surface. This surface tension will support a paper clip or bug on the surface.

What is capillary action and what makes this happen?

Capillary action results from attractive forces between the water molecules and the molecules within the tissue or tube (Adhesion) which draws up the water into the material.