



Maple Syrup



Ketchup



Water

What is the difference?

Teacher's supplies needed

- Ketchup, water and syrup are all fluids that flow. Our body contains many fluids, such as blood, or watery cytoplasm inside cells.

Definition

Fluid - is any form of matter that flows

- can be either liquid or gas (No definite shape)

Air flows

example) Food Fluids (Water, oil, maple syrup, ...)

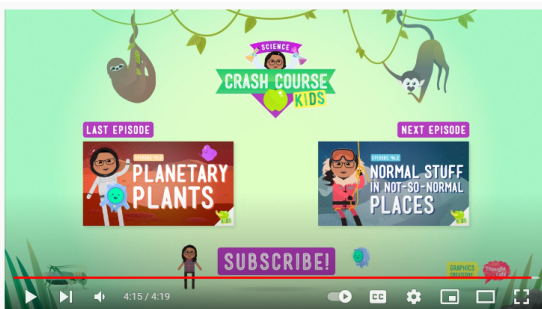
Cleaning Fluids and cream

Bodily Fluids

Industrial Fluids (Compressed air in tires, lubricants, ...)

Discussion: What about silly putty?

 [Is silly putty a solid or a liquid?? | Viscoelasticity | Physics - YouTube](#)



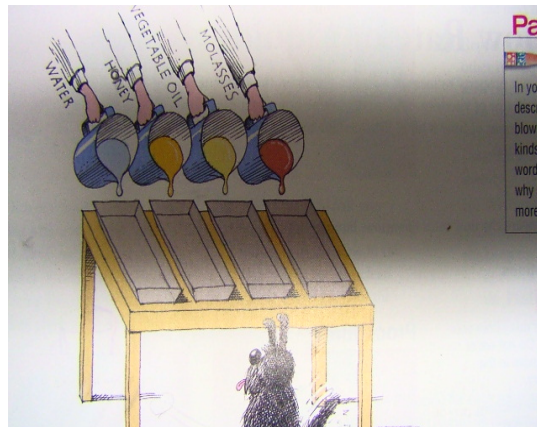
Physical Science: Properties of Matter
Oobleck and Non-Newtonian Fluids: Crash Course Kids #46.1
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How fast do fluids flow?

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 thin enough to swallow.

Think about the chocolate covering on chocolate bars..

Needs to be melted and able to pour over the nugget

Attachments

[Grade 8 Science Fluids 65.pdf](#)

[Grade 8 Science Fluids 67.pdf](#)

[Grade 8 Science Fluids 68.pdf](#)

[Grade 8 Science Fluids 70.pdf](#)