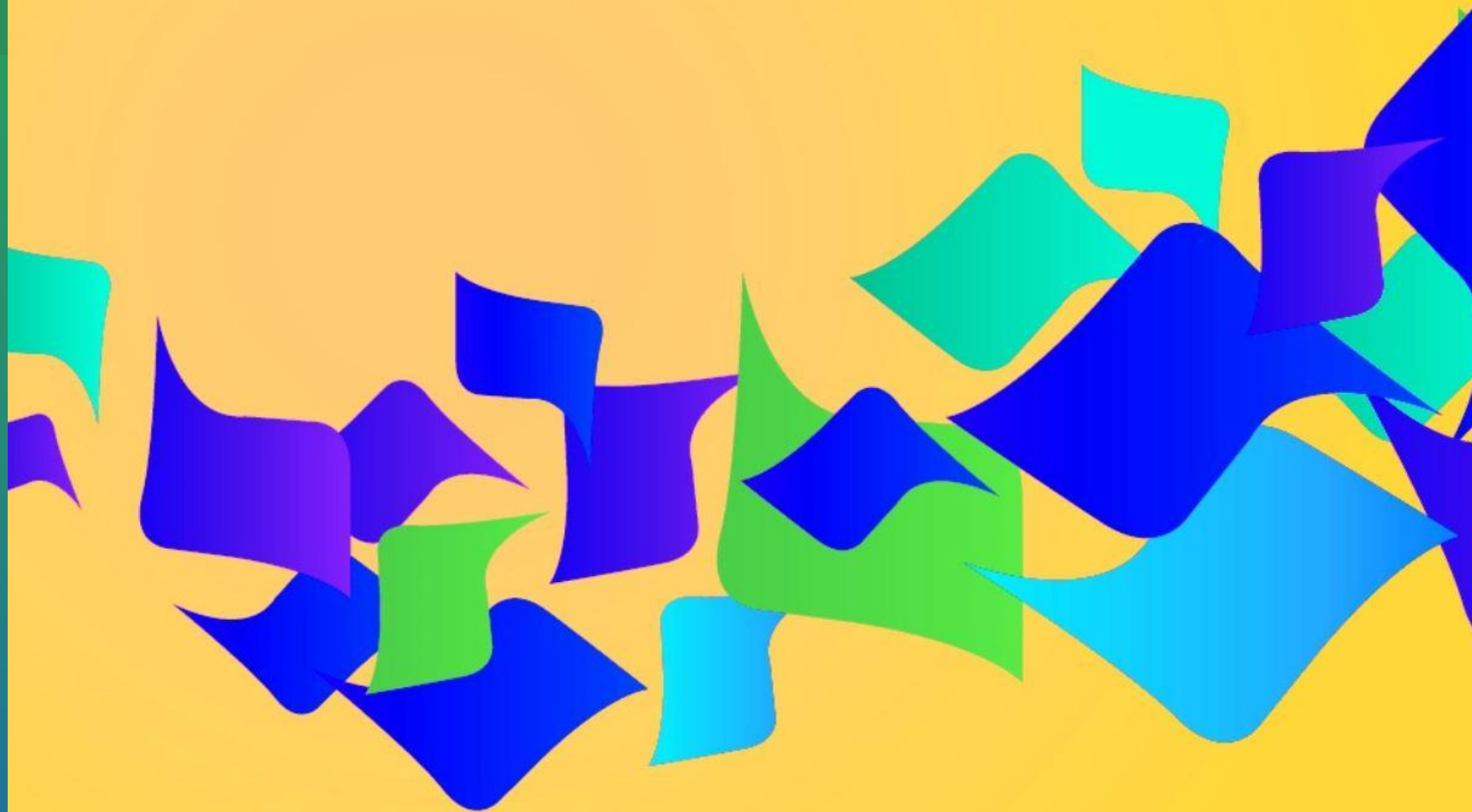


VISCOSITY





Eurol Lubricants (2020). Thin, thinner, thinnest: The trend towards low-viscosity engine oils. Eurol.com.
<https://eurol.com/en/thin-thinner-thinnest-the-trend-towards-low-viscosity-engine-oils/>

I NOTICE/I WONDER

VISCOSITY



Viscosity is the measure of a liquid's resistance to flow.



Questions:

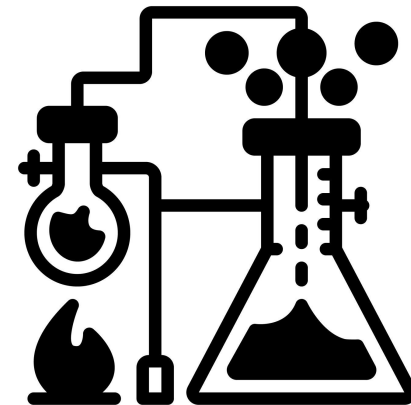
1. Would you expect a liquid with a high viscosity to flow faster or slower than a liquid with a low viscosity?

2. Rank the following liquids in order from lowest to highest viscosities:

- Syrup
- Molasses
- Water
- Honey
- Cooking oil

Viscosity Lab Time

Lets measure the impact of temperature on viscosity



DISCUSSION

- Did the molasses have a higher or lower viscosity than corn syrup?
- Which temperature of corn syrup had the highest viscosity, and which had the lowest viscosity?
- How did water impact the viscosity of corn syrup?

DISCUSSION

- Based on what we learned about composition and temperature of magmas, would felsic or mafic lava have higher viscosity?
- Based on what you know about the viscosity of mafic magma, what type of volcanic eruption would you expect?
- Based on what you know about the viscosity of felsic magma, what type of volcanic eruption would you expect?