

IMF (Magnets)

Factors That affect IMF Strength

- ① Polarity: More Polar  $\rightarrow$  Stronger IMF
- ② Distance between Molecules  $\rightarrow$   $\uparrow$  dist.  $\downarrow$  IMF
- ③ Size: (larger Molecules:  $\uparrow$  IMF (Gravity))

Earth

Re

Dec 16-7:30 AM

Types / Flavors of IMF

Strong

① Ion - Ion

$\oplus$   $\text{Na}^+$  .....  $\ominus$   $\text{Cl}^-$

② Ion - Dipole (Polar Molecule)

$\text{Na}^+$  .....  $\text{H}_2\text{O}$   $\delta^-$

$\text{Na}^+ \text{Cl}^- \text{Na}^+ \text{Cl}^-$   
 $\text{Cl}^- \text{Na}^+ \text{Cl}^- \text{Na}^+$   
 $\text{Na}^+ \text{Cl}^- \text{Na}^+ \text{Cl}^-$

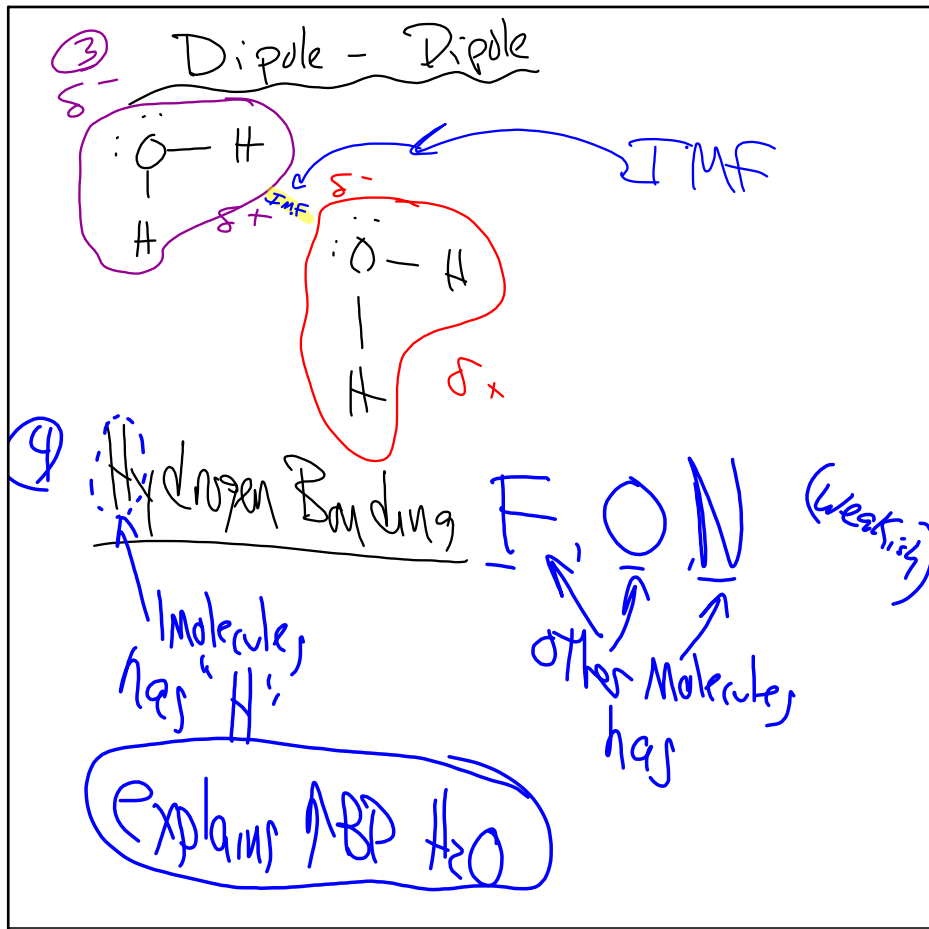
Crystal lattice

Solvation Process

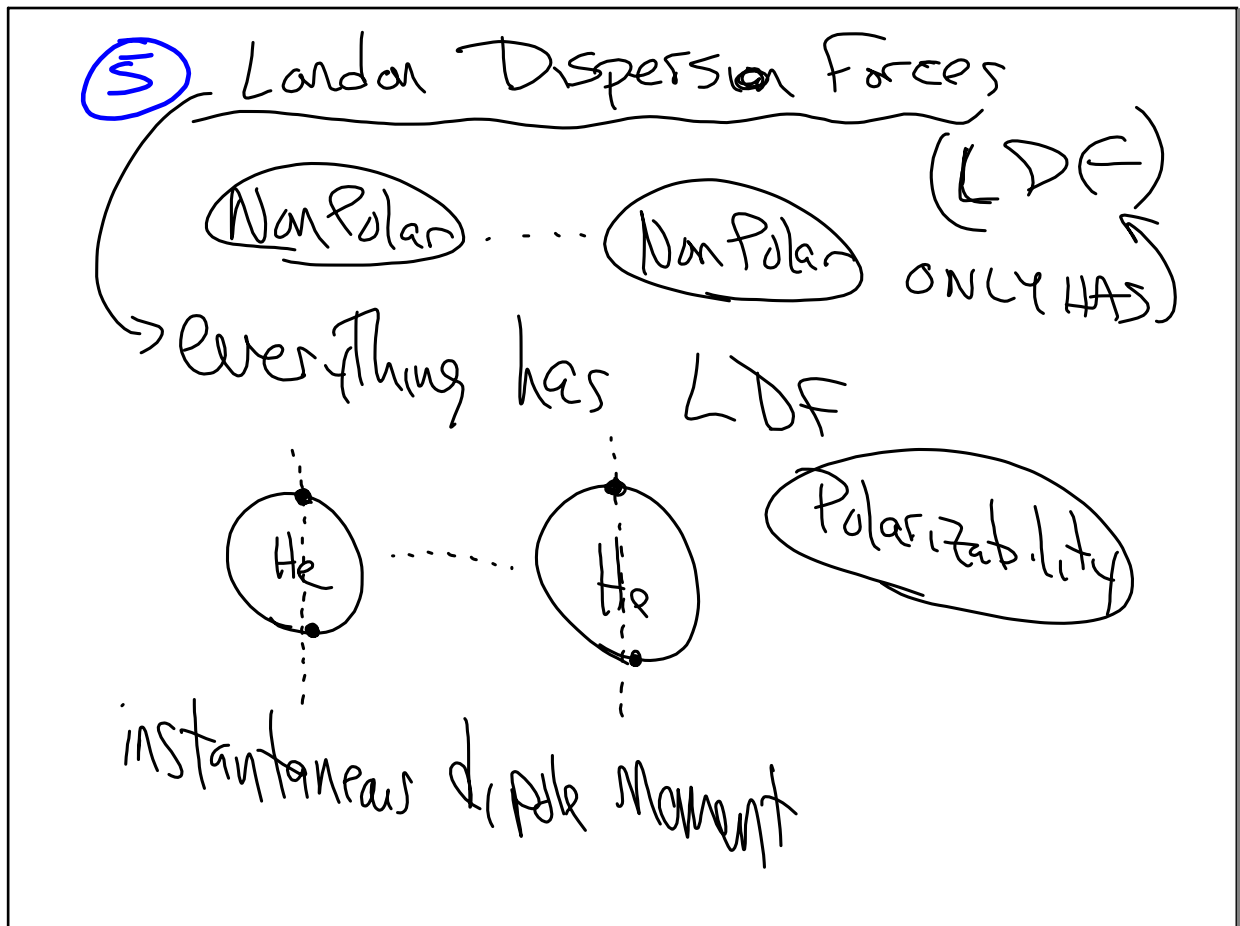
$\text{H}_2\text{O}$   $\delta^-$   
 $\text{H}_2\text{O}$   $\delta^+$

Weak

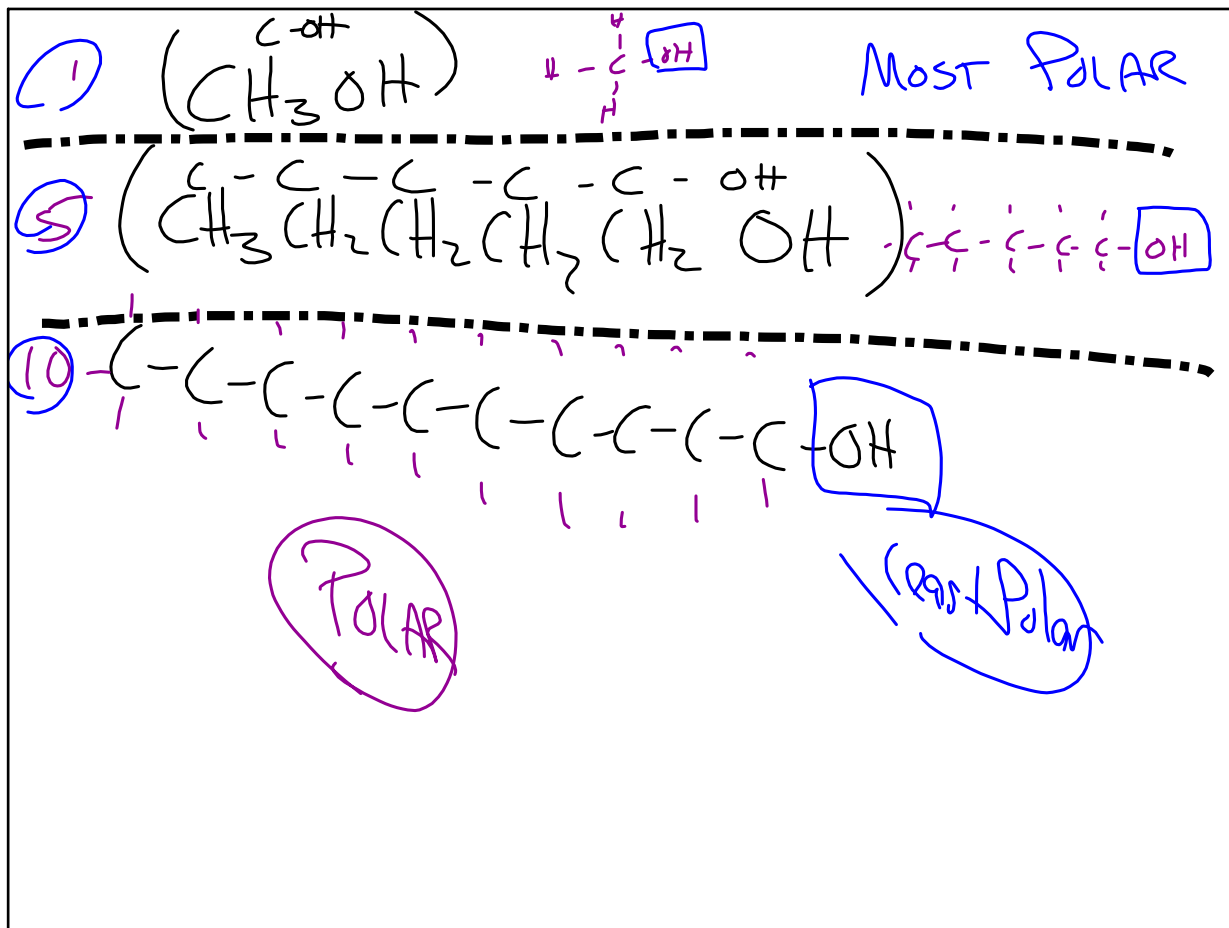
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Dec 16-8:36 AM



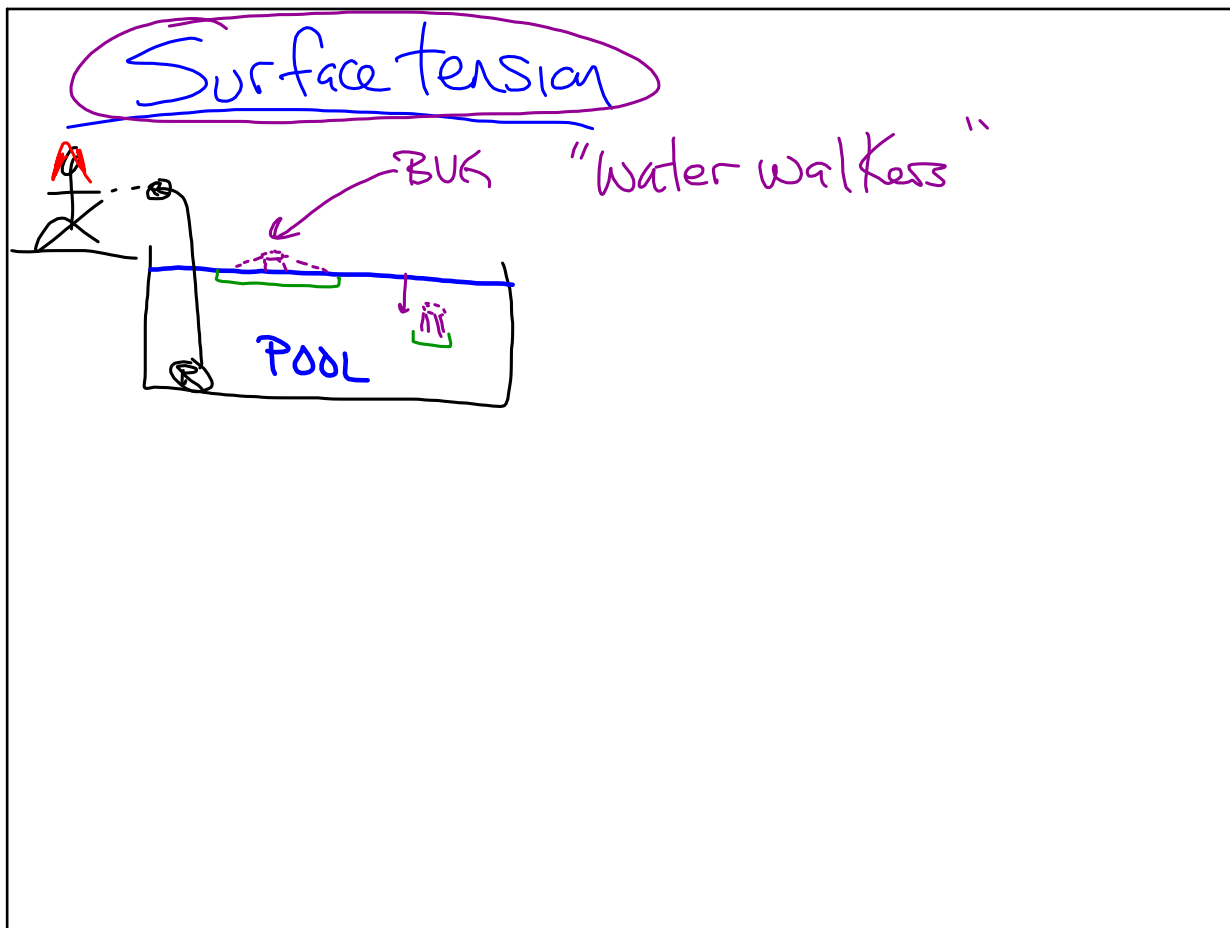
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Viscosity - resistance to flow

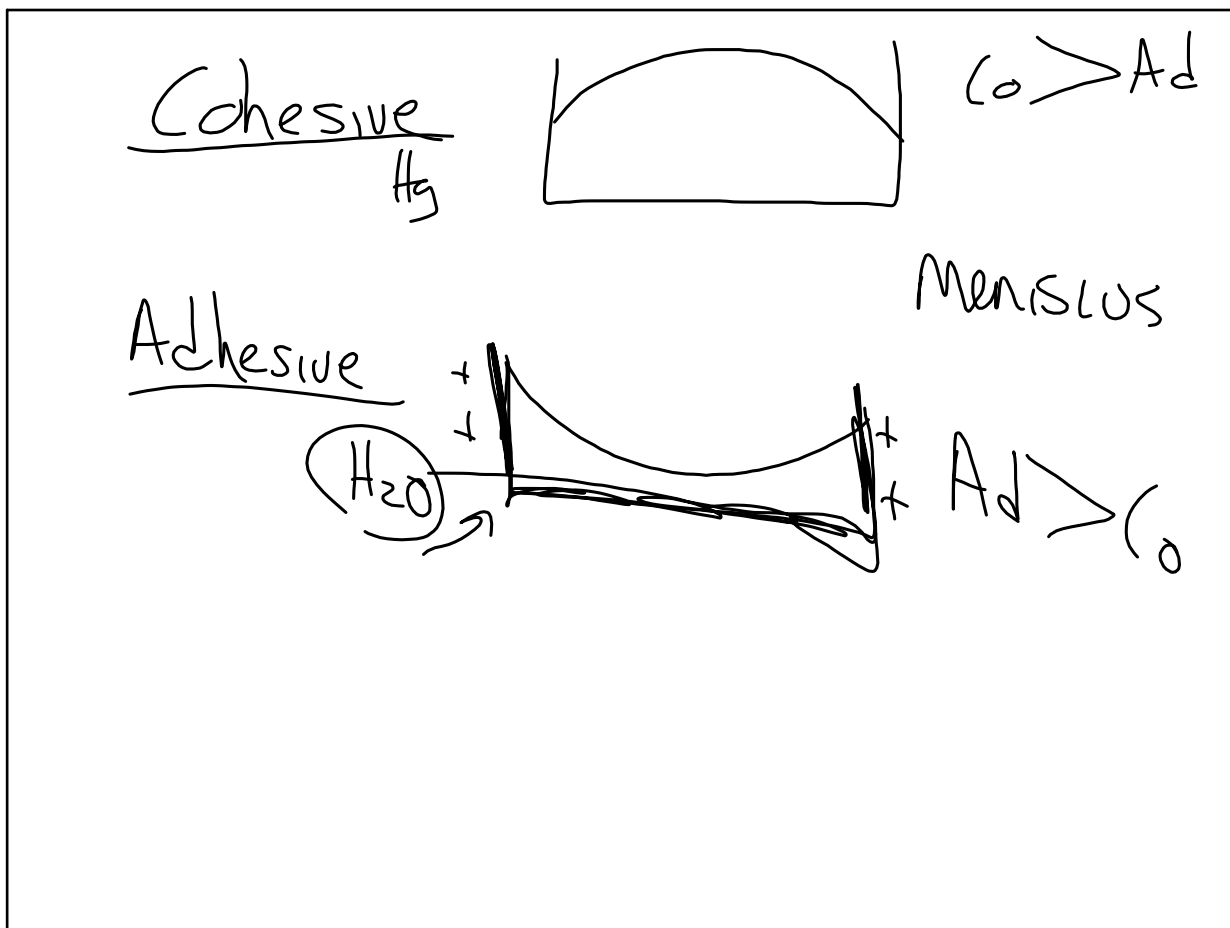
Water vs Maple syrup.

Slower flow  
 b/c  $\uparrow$  IMF

Dec 16-9:02 AM



Dec 16-9:07 AM



Dec 16-9:14 AM

11/20, 26, 30

Dec 16-9:17 AM