

$\text{+} \bigcirc \text{-}$ = Water particle

$\text{+} \text{---} \text{-}$ = Soap particle

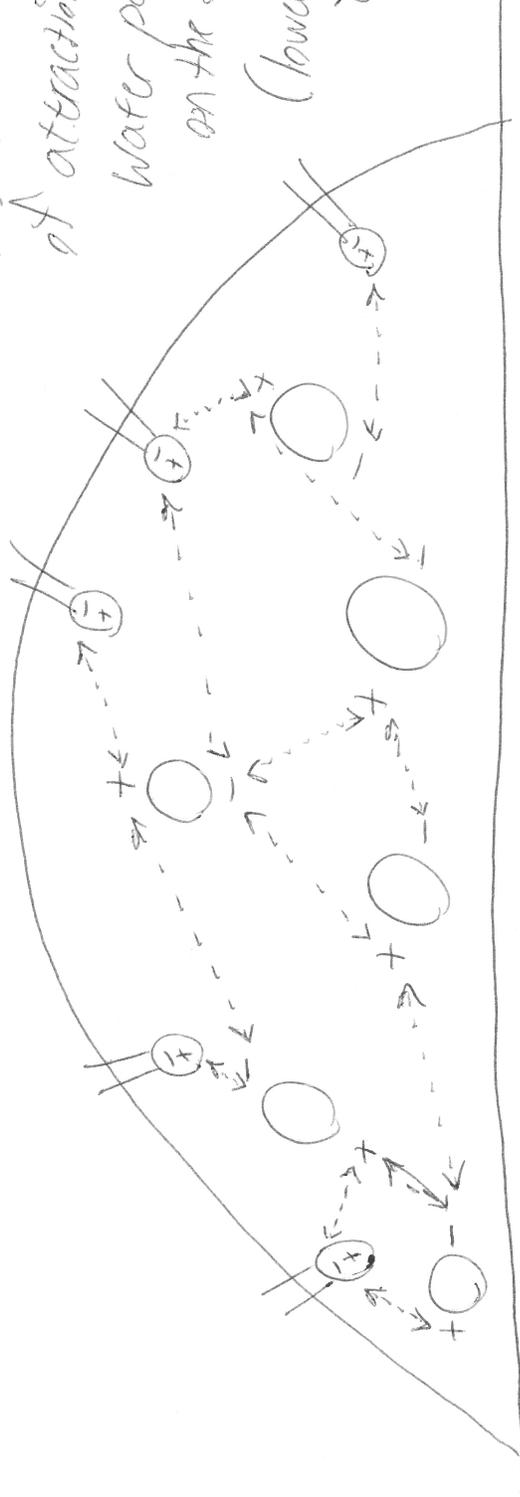
$\text{---} \text{---} \text{---}$ = hydrogen bond

Force of gravity



- Water particles are pulled inward and outward toward the charged head of soap particles

- this reduces the level of attraction ~~between~~ water particles on the surface (lower surface tension)



- since the water particles aren't as attracted to each other on the surface, gravity is able to flatten the spherical shape of the drop