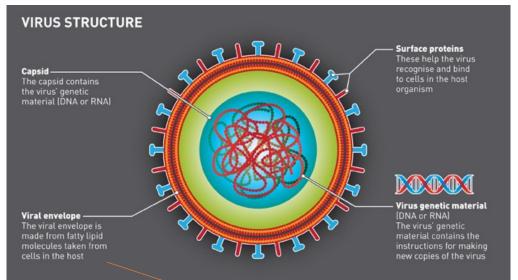
The Chemistry Behind Hand Washing

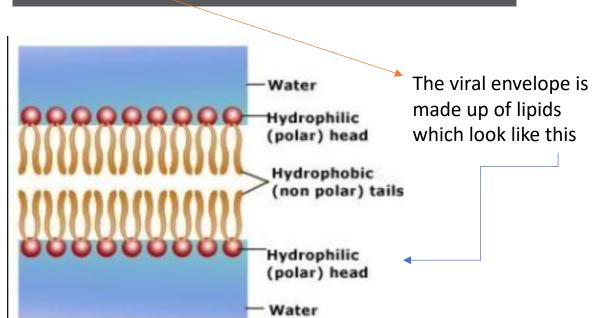
By: Laura Harriss – Cobb County 4-H'er





Hydrophobic = doesn't like water and naturally repels it

Hydrophilic = likes water and does not repel it.



When you wash your hands, the hydrophilic parts of soap interact with the hydrophobic parts of soap interact with the hydrophobic parts of soap interact with the hydrophobic parts of the lipid. If water makes it past the lipid layer, then it can break down the rest of the virus. If you only use water to wash your hands, you will not be able to break down any oils or viruses that may be on the surface of your hands.