Quiz 12.1 – Intermolecular	Forces and	Liquid	Properties
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CO₂ C₆H₁₄ CH₂Cl₂ CH₃OH

Dispersion / H-bond

dipoledipole

straight-chain C_8H_{18} branched C_8H_{18}

State the strongest intermolecular force for each of the compounds below:

From each pair of substances, circle the one with stronger intermolecular forces:

Question 1

Question 2

Question 3

COOH

 $C_3H_8 \mid C_{12}H_{26}$

Provide an explanation for why liquids exhibit surface tension, from a microscopic perspective. You may find it useful to draw a simple diagram.		
comme fewer attractive forces on surface		
Question 4 OCOCO More attractive forces in bulk		
Soap bubbles take a tiny amount of water and stretch it out to form a very thin shell with both inner and outer surfaces. Compared to a droplet made from the same amount of water, a bubble has enormous surface area. Based on this information, do you predict that soap increases, or decreases the surface tension of water? Why?		
Decreases - A strong sufface tension makes large surface-areas		
Question 5 Contract to form Smaller Surface areas		
Water in a glass vessel will form a concave meniscus, while mercury in a class vessel will form a convex meniscus. What can this tell you about the adhesive and cohesive forces in each case?		
Water-glass these is Stronger than water-water atherian Cohesion		
Hy-glass redescence is weaker than Hy-Hy Cohesian adhesian		