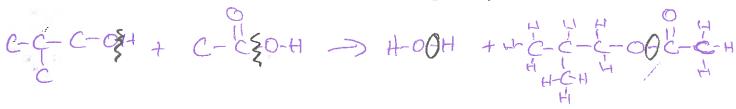
ALT 5: I can describe how and why atoms form bonds.

1) Draw the structural formula of the products of the following ester synthesis.



- 2) Briefly describe what happens to the above reactant and product molecules during this reaction.
 - a. Reactants bonds broke (C-O \$ O-H]

b. Products bonds formed [O-H & C-O]

3) One particular ester has a pear smell and another has a banana smell, how do their structural

- C-C-C-C-C-H VS. H-C-C-C-C-C-H
H-C-H H H H H
H (Banana) (Pear)

Answer:

they have a different shape/size

4) Fill in the following chart:

Molecular formula	Lewis Dot Structure	Structural formula with loan pairs	Number of electron domains	Number of loan pairs of electrons	Shape of molecule
CH ₄	H;Ö:H H	H-C-H	4	8	tetrahodra
CO ₂	0530 220	Öscsö	2	48	linear
H ₂ 0	H: Q:H	H-Ö-H	4	2	bert
NH ₃	Hº Nº H	H-N-H	4	1	trigonal

5) What determines the shape of a molecule?

number of electron domains, the bondy of

Non = bonding e-