

## E Esters

### ① Esters

a Give one word to describe the typical smell of many simple esters. ....

b Give examples of three foods we eat that taste of mixtures of esters.

1 ..... 2 ..... 3 .....

c Give two uses of esters.

1 .....

2 .....

d Use the names of the chemicals in the box below to write a word equation for the formation of an ester.

water	ethanol	ethyl butanoate	butanoic acid
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.....

e Complete this word equation.

pentanol + ethanoic acid → ..... + .....

f Label the diagrams below to show how to make a small sample of an ester and then smell the product.

The words and phrases in the box will help you.

acid	alcohol	catalyst	carboxylic acid	hot water
neutralise leftover acid	reaction mixture after warming	sodium carbonate solution		

