

Ester Formation WS

Name _____

- 1) An ester forms from the condensation of a _____ and an _____.
- 2) Esters are naturally occurring organic molecules that have a distinct _____.
- 3) An odor is a molecule that binds to your _____ receptors. These receptors can detect up to _____ different odors.
- 4) Where are the majority of these receptors located? _____ Why is the sense of taste so closely related to the sense of smell?

Drawing Structures: (draw all hydrogens!!)

Alcohol + Organic Acid → Ester + Water

1) methanol + ethanoic acid → methyl ethanoate (glue stick) + water

2) ethanol + benzoic acid → ethyl benzoate (grape) + water

3) 2-propanol + methanoic acid → 2-propyl methanoate (apple) + water

OVER:

4) propanol + hexanoic acid → propyl hexanoate (blackberry) + water

5) methanol + benzoic acid → methyl benzoate (vanilla) + water