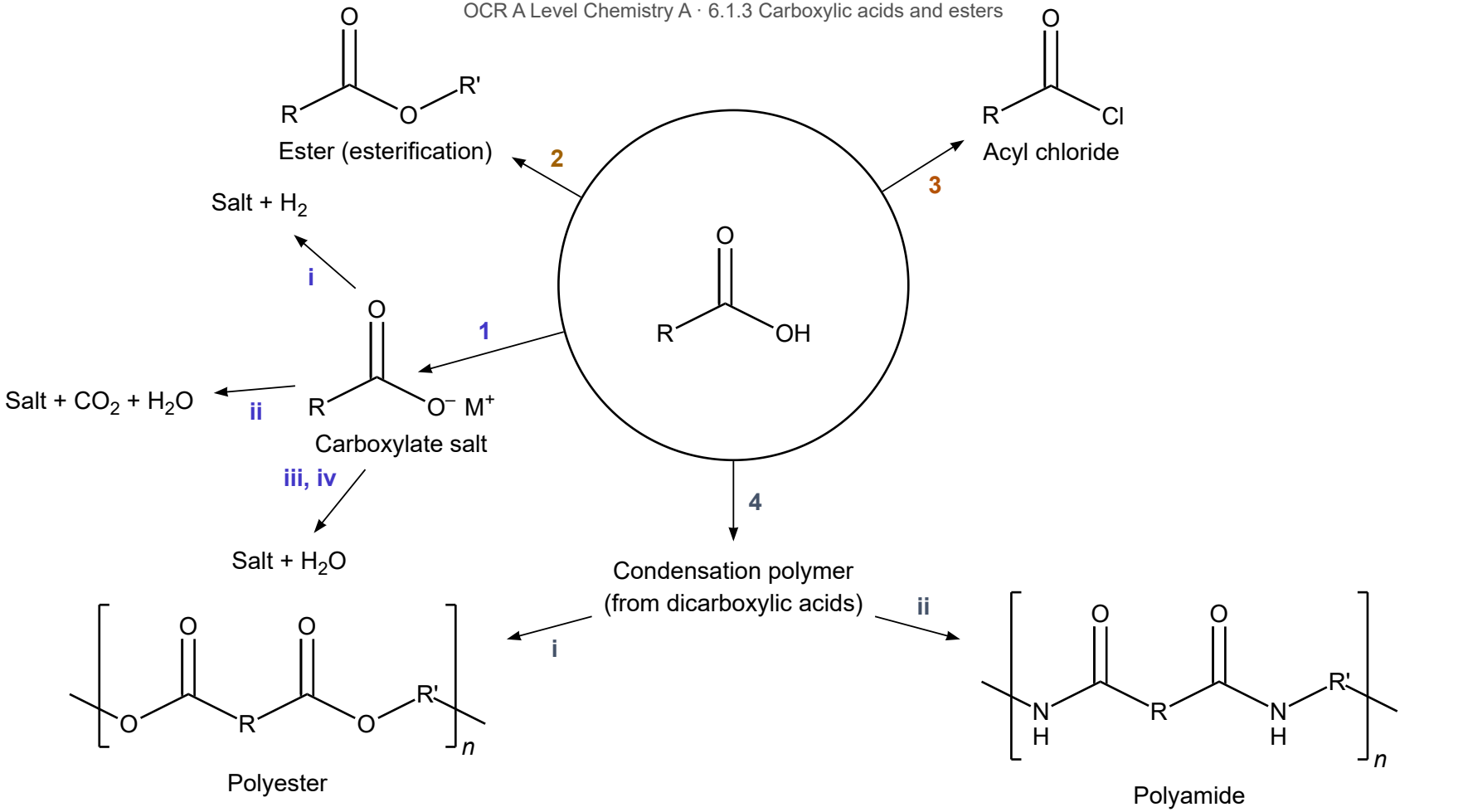
Carboxylic Acids Map

OCR A Level Chemistry A · 6.1.3 Carboxylic acids and esters



1 acid-base: metals, carbonates, metal oxides or alkalis, aqueous, room temperature
i metal, e.g. Mg (redox)
ii carbonate, effervescence
iii metal oxide
iv alkali

2 condensation (esterification): alcohol, R'OH, conc. H_2SO_4 catalyst, heat

3 substitution: $SOCl_2$, room temperature (SO_2 and HCl given off)

4 polymerisation (condensation): diol or diamine
i diol
ii diamine

Carboxylic acids fizz with carbonates (test); phenols do not.
Short-chain acids dissolve in water through hydrogen bonding.

acid-base condensation substitution polymerisation

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