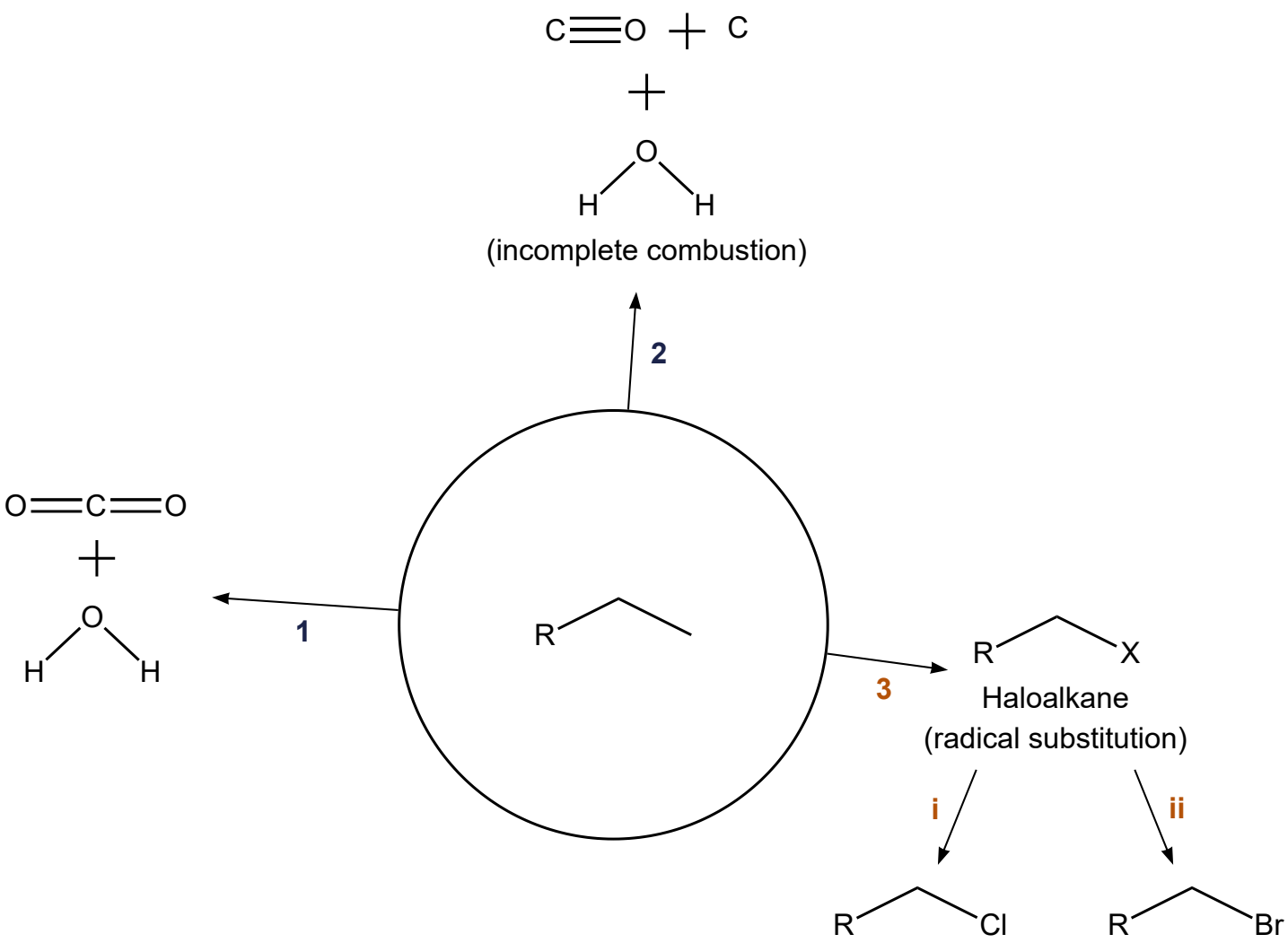
Alkanes Map

OCR A Level Chemistry A · 4.1.2 Alkanes



1 combustion: excess O_2(g), burn (complete combustion, as used in fuels)

2 combustion (incomplete): limited supply of O_2(g), burn; CO is toxic

3 substitution (radical): UV radiation
i Cl_2
ii Br_2

Radical substitution gives a mixture of products: further substitution and substitution at different positions in the chain.
Alkanes are unreactive: strong, non-polar C–C and C–H σ-bonds.

combustion **substitution**

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