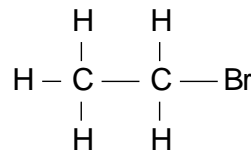
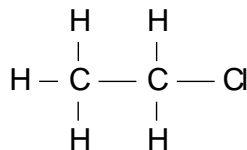
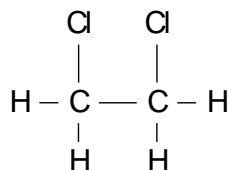


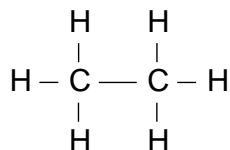
**PCl₃, PCl₅ or
SOCl₂**

KOH(alc), heat



H⁺/MnO₄⁻

KOH(aq), heat



**C₂H₄
heat\catalyst**

H⁺/Cr₂O₇²⁻, heat

Cl₂ or Br₂

HCl or HBr

Cl₂ or Br₂, UV

H⁺/H₂O, heat

Conc. H₂SO₄

Conc. NH₃

H₂, Ni catalyst

H⁺/MnO₄⁻, heat

<i>ethanoic acid</i>	<i>ethane</i>	<i>ethanol</i>
<i>aminoethane</i>	<i>bromoethane</i>	<i>1,2-dibromoethane</i>
<i>polyethene</i>	<i>ethan-1,2-diol</i>	<i>ethene</i>

Substitution

Substitution

Addition -
halogenation

Addition -
hydrohalogenation

Addition -
hydrogenation

Addition -
hydration

Addition -
polymerisation

Oxidation

Oxidation

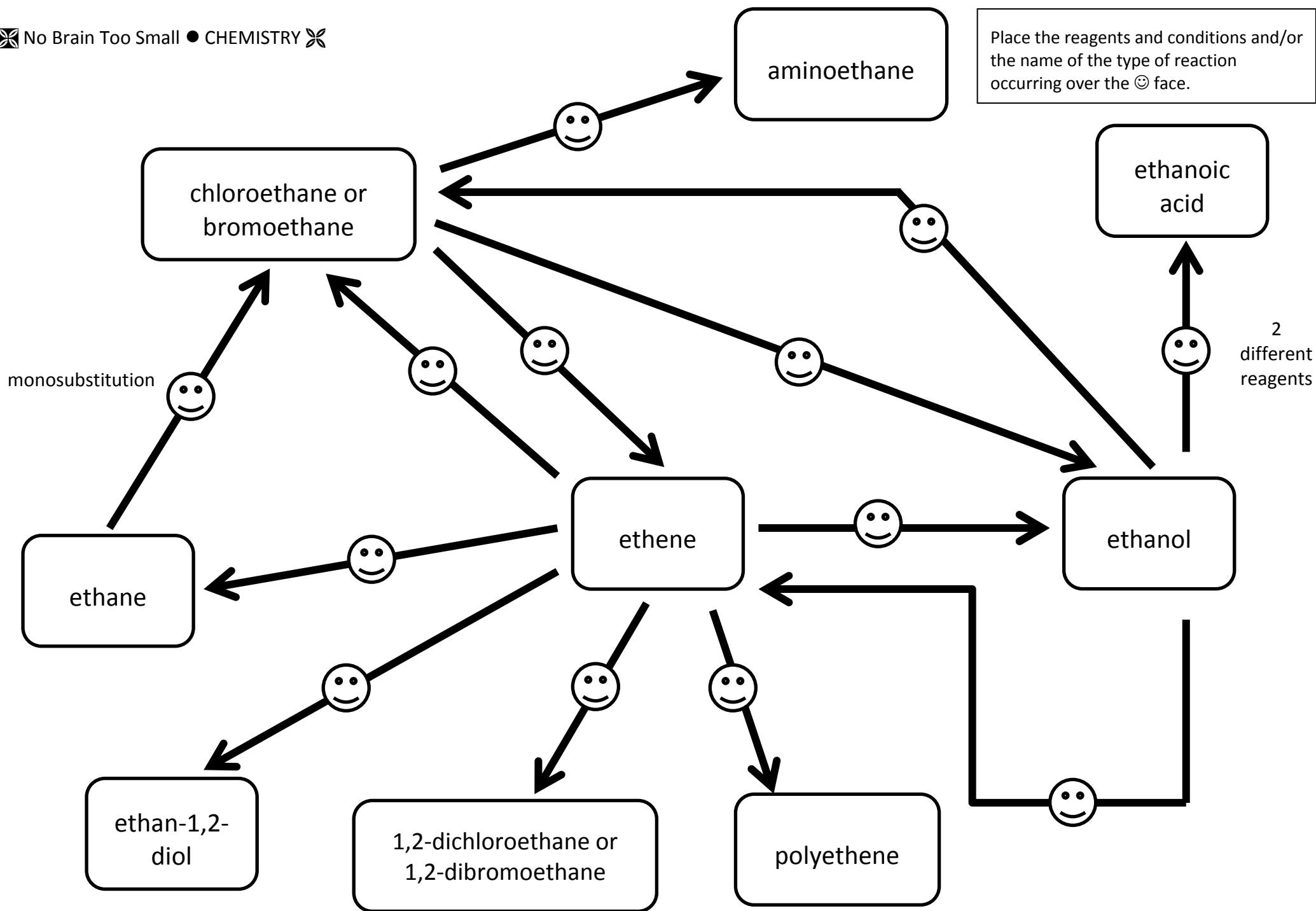
Substitution

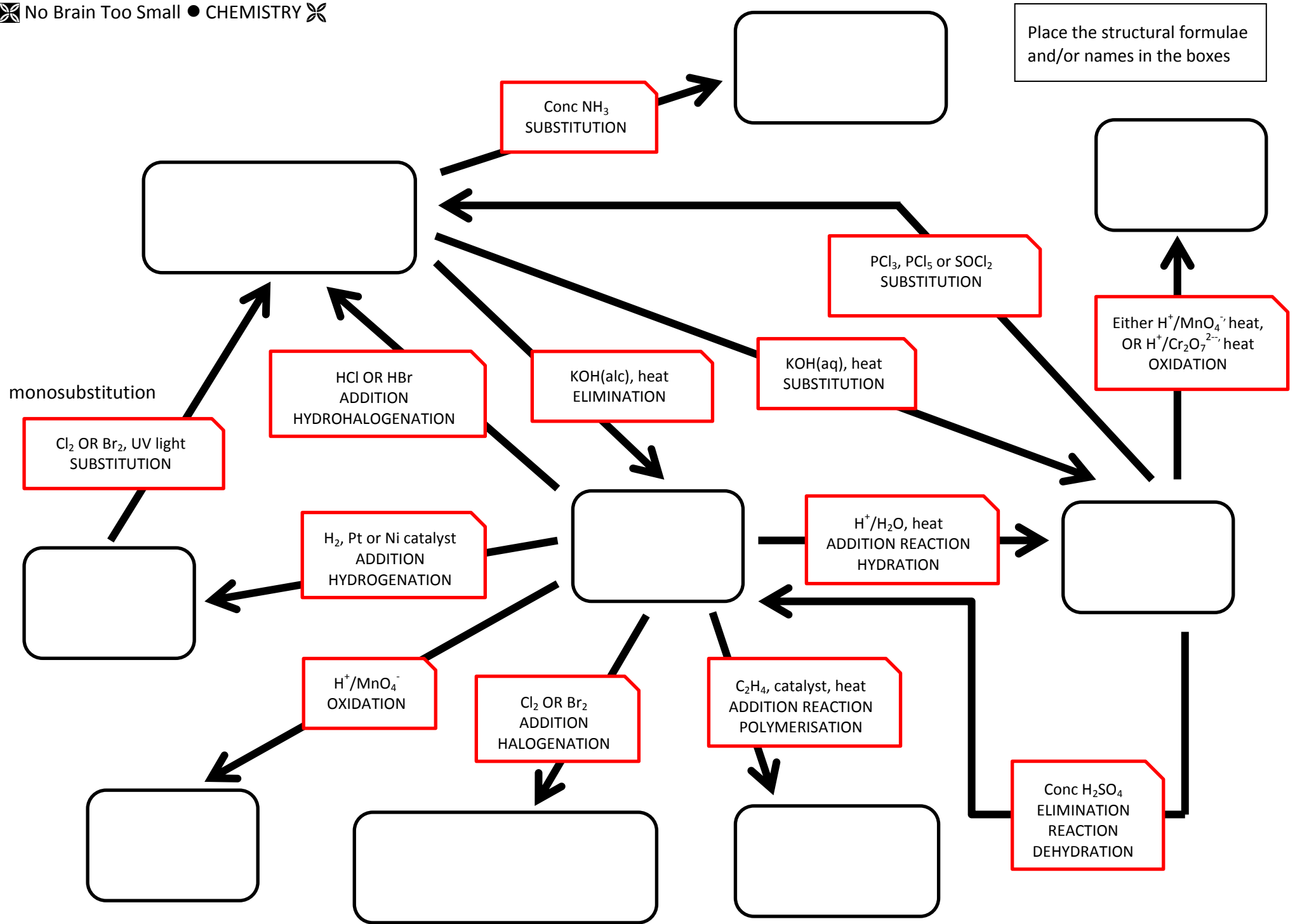
Elimination

Substitution

Oxidation

Elimination -
dehydration





Suggested Answers

