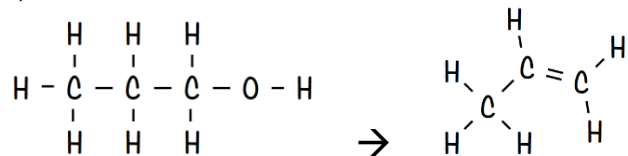


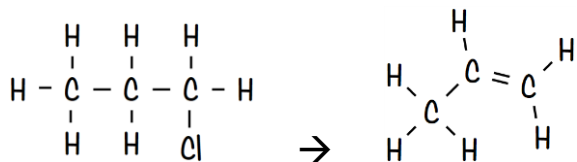
ELIMINATION: C-C to C=C

*Watch out for major/minor products for some molecules

*Conc. H₂SO₄, heat

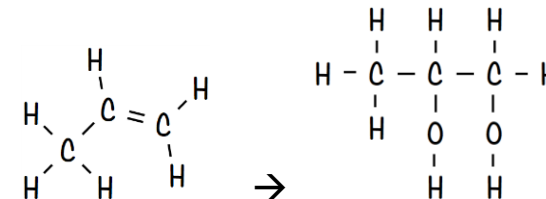


*KOH(alc), heat



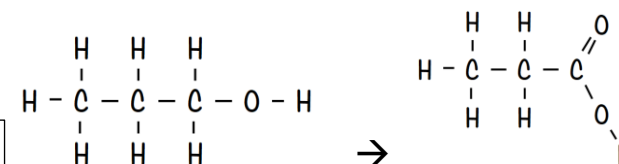
OXIDATION: Involve oxidising agents such as potassium permanganate, KMnO₄, or potassium dichromate, K₂Cr₂O₇

MnO₄⁻ OR H⁺/MnO₄⁻



H⁺/MnO₄⁻, heat OR H⁺/Cr₂O₇²⁻

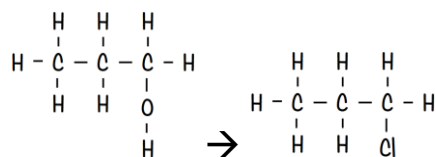
Oxidation of PRIMARY alcohol



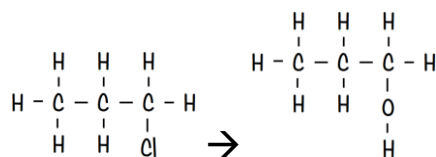
L2 CONVERSIONS

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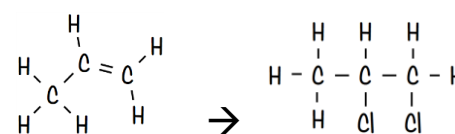
SOCl₂ or PCl₅ or PCl₃



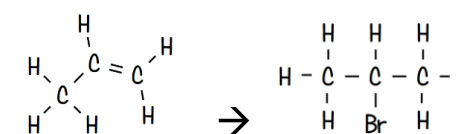
KOH(aq), heat



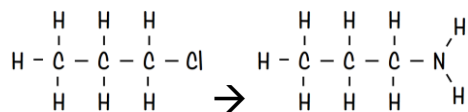
Cl₂, Br₂



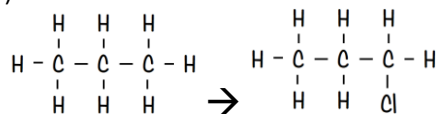
*HCl, HBr



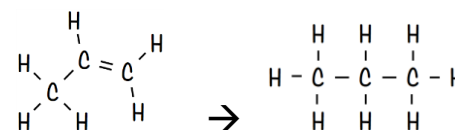
Conc. NH₃(alc)



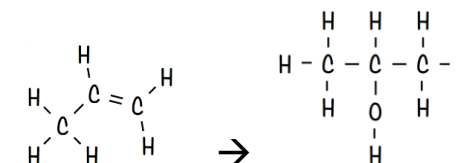
Cl₂ or Br₂, UV light and/or heat
(*monosubstitution, replace any H*)



H₂, Ni or Pt catalyst

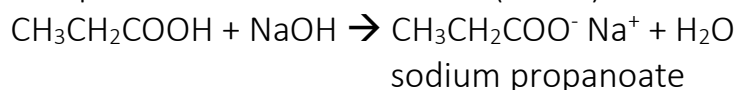


*H⁺/H₂O, heat OR dil. H₂SO₄, heat



SUBSTITUTION: Replace one atom/group with another atom/group. C-C is unchanged.

ACID-BASE: Acids are proton (H⁺) donors, bases are proton acceptors. Acid + base → salt (+ H₂O)



ADDITION: C=C to C-C

*Watch out for major/minor products for some molecules

