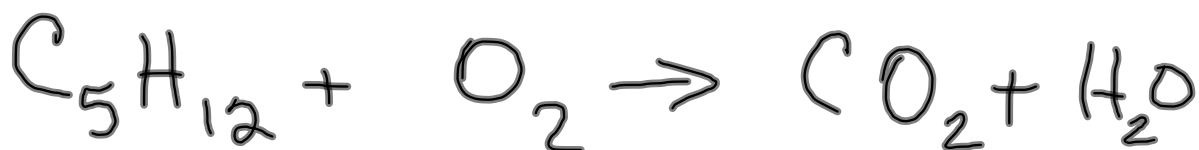
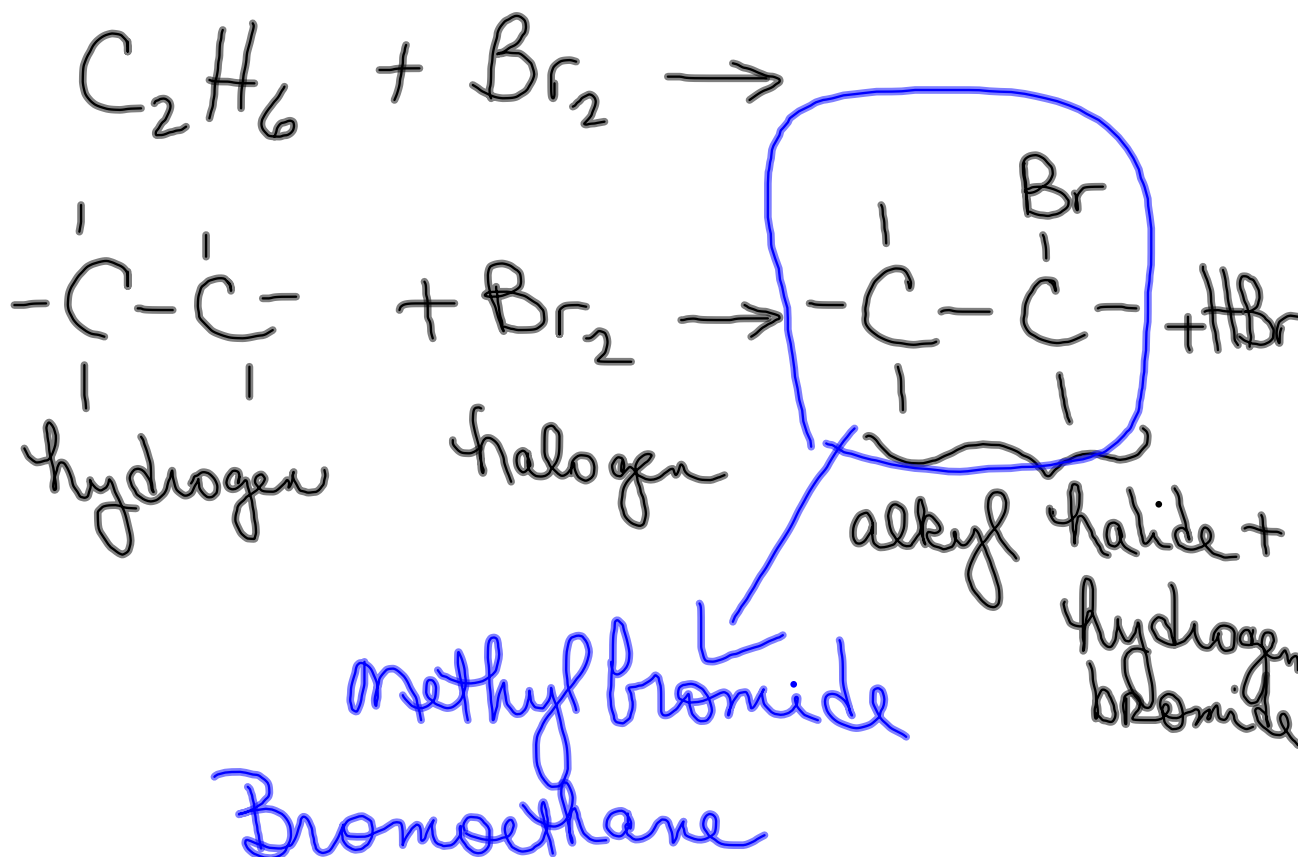


Alkane Reactions:

1. Combustion: *add O₂*
Complete—products are CO₂ and H₂O
Incomplete—products are CO and H₂O



2. Substitution:
Usually a halogen is added to a hydrocarbon replacing hydrogen in the compound



CFCs (chlorofluorocarbons)--substituted methanes with both chlorine and fluorine. General formula is CF_xCl_{4-x} . Commonly called freons which are coolants used in refrigeration and air conditioners. They break down the ozone layer.

3. dehydrogenation—hydrogen atoms are removed and the product is an unsaturated hydrocarbon and hydrogen gas

