

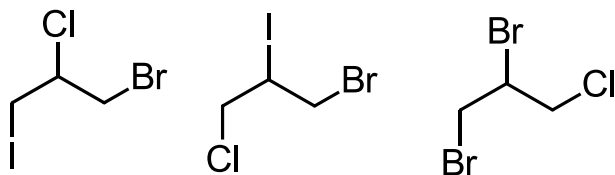
# Properties and nomenclature of Haloalkanes

Pre-lesson assignment- textbook page 224 (see also p74-6)

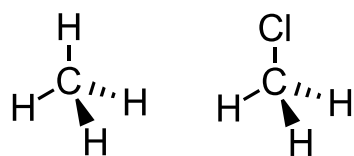
## Make notes on the properties of haloalkanes

Use the following questions as guidance

1. Using **skeletal** formulae, draw and name all 5 possible structural isomers of  $C_3H_6ClF$ .
2. Name the following compounds:



3. Explain why methane is classed as a non-polar molecule, but chloromethane is classed as a polar molecule. Use **3D** structures (as below) to illustrate your points.



4. Explain why chloromethane will have a higher boiling point than methane.
5. Explain why chloromethane is not very soluble in water.