

# Hydrolysis of Haloalkanes

Pre-lesson assignment – Textbook pg 230-234

## Define the following key words

- Hydrolysis
- Average Bond enthalpy

## Make notes on the hydrolysis of haloalkanes

*Use the following questions to structure your notes.*

1. You will be doing an experiment to investigate the rate of hydrolysis of haloalkanes. Suggest a method, including
  - a. The independent variable and how it could be changed.
  - b. The dependent variable and how it could be measured.
  - c. The method used.
2. Halogens react with silver nitrate solution.
  - a. Write an ionic equation for the reaction of silver ions with each halide ion, including state symbols.
  - b. What colour would the precipitate be in each case?
3. Predict, using the textbook, how the rate of hydrolysis could depend on...
  - a. The bond enthalpy of the C-X bond.
  - b. The stability of any carbocations formed in the reaction mechanism.