Foxford Learning Plan

YEAR 12

Aldehydes, ketones and modern analytical techniques

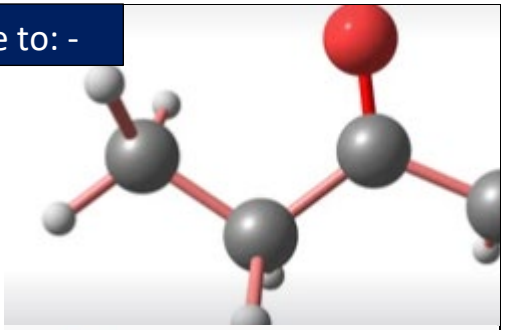
Key Vocabulary

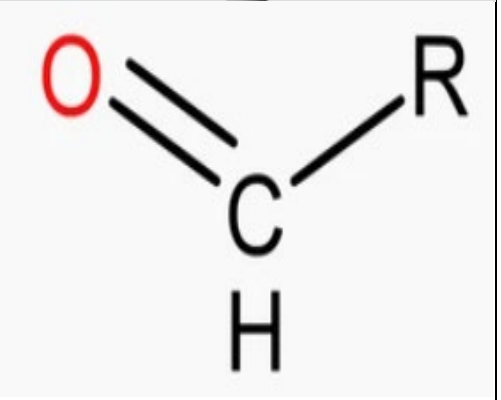
Aldehyde	A homologous series of organic compounds formed by partial oxidation of primary alcohols
Ketone	A homologous series of organic compounds formed by partial oxidation of secondary alcohols
Carboxylic acid	A homologous series of organic compounds formed by complete oxidation of primary alcohols
IR spectra	A technique to analyse molecules based on frequencies of infra red radiation absorbed by bonds in organic molecules
Fragmentation	Breaking apart of a large molecule into smaller pieces.
Oxidation	Loss of electrons
Reduction	Gain of electrons
Mass spectroscopy	A technique to analyse molecules based on mass

Key Skills

Over the course of the topic, I will be able to: -

- Complete analysis to identify aldehydes and ketones
- Use melting points to test for purity
- Analyse data from IR spectra
- Synthesize an organic product using a variety of techniques
- Analyse data from mass spectra





I will understand

1. How to identify bonds using the data booklet
2. How to identify fragments of molecules and so deduce the whole molecule.
3. The use of melting points in attaining percentage purity.
4. Methods of making a substance pure.