

CHEMISTRY LEARNING JOURNEY

Science and Research

- Research Scientist
- Chemist
- Forensic Scientist

Medicine and Healthcare

- Doctor
- Nurse
- Pharmacologist

Agriculture

- Quality Controller
- Food Scientist
- Market Researcher

Careers in Chemistry

Energy and Utilities

- Petroleum Engineer
- Geochemist
- Mudlogger

Engineering

- Biochemical engineering
- Civil engineer
- Mechanical engineer

Manufacturing

- Food technologist
- Manufacturing Engineer
- Manufacturing Manager

Careers in Chemistry

A-level Chemistry

BTEC Applied Science

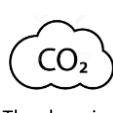
Post-16

Final GCSE exams

Revision



Climate change



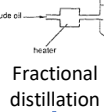
The changing atmosphere



Alternative fuels

Complete and incomplete combustion of hydrocarbons

Properties of hydrocarbons



Fractional distillation

Crude oil

CC17

CC15

CC16

Bond	Average bond enthalpy (kJ mol ⁻¹)
C-H	413
C-C	347
C-O	358
O-H	464
O=O	498

CC16

CC14

CC13

CC14

CC13

YEAR 11

CC10/CC11/CC12

CC13

CC14

CC14

CC13

CC9

OH⁻

CC8

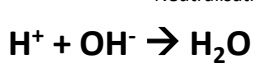
CC5/CC6/CC7

CC4

CC3

CC1/CC2

YEAR 10



Cl

17 35.453

H⁺

Na

11 22.99

Metals and non-metals

Groups and periods

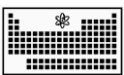
Acids

Reactions

Elements

Particle model

Start

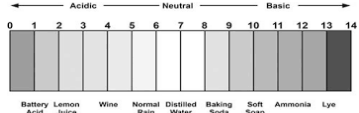


Turning points - elements

Making salts

Neutralisation

Indicators and pH



Acidic Neutral Basic

