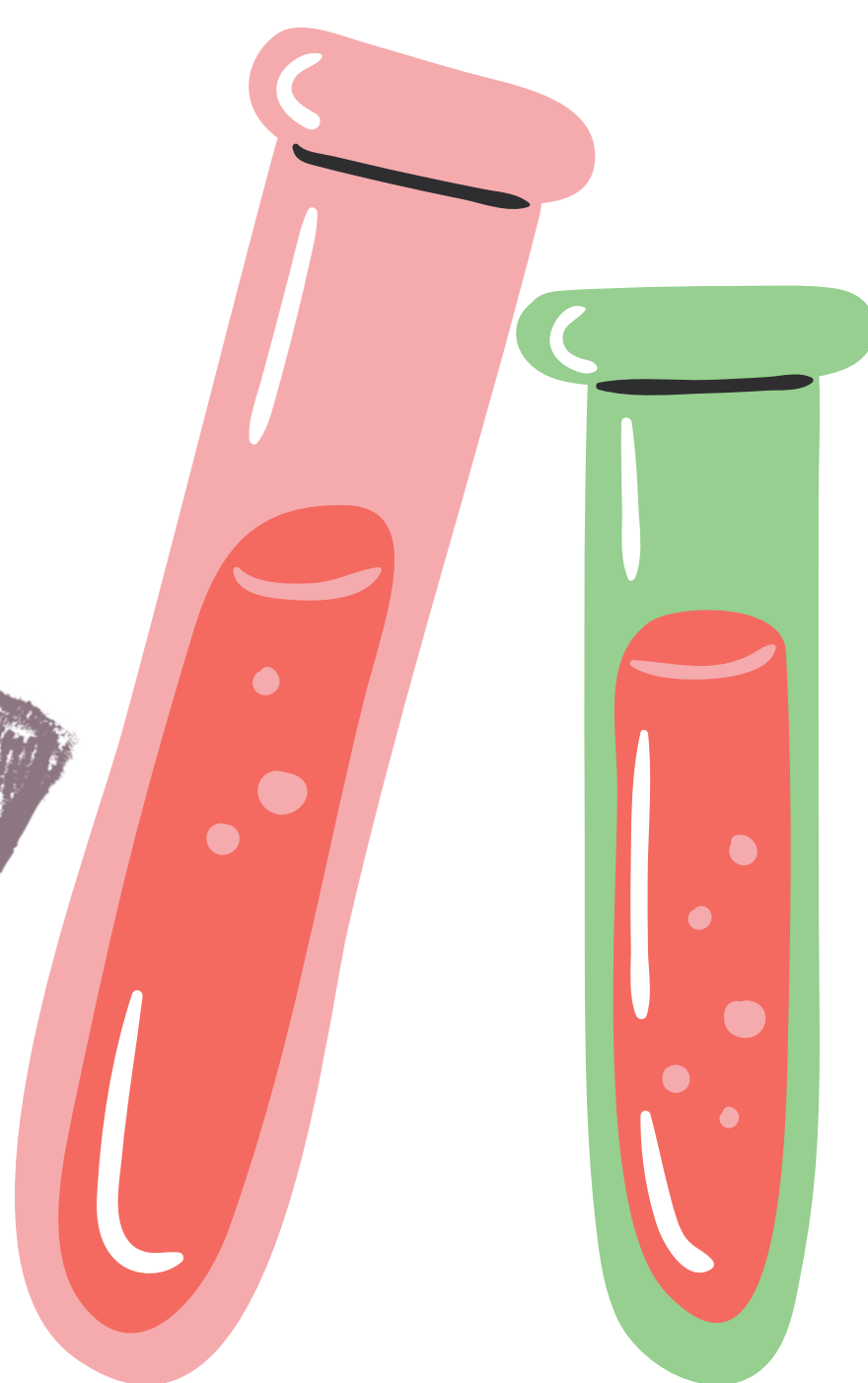
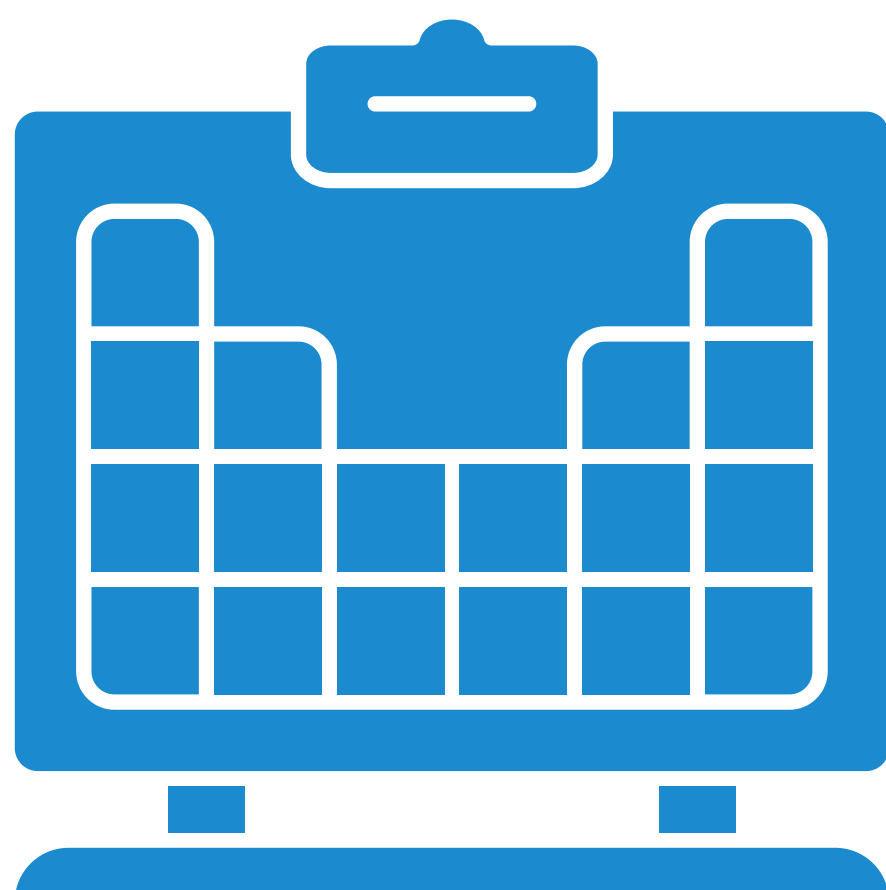
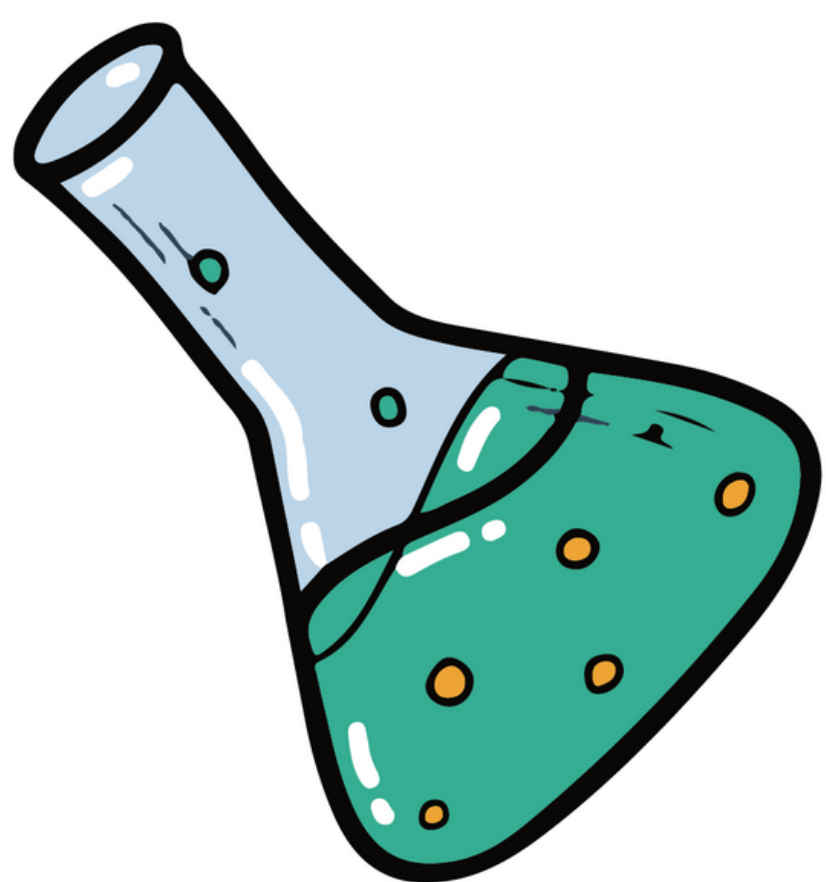


GCSE Chemistry

WHAT IS IN THE COURSE?



The 10 topics in GCSE Chemistry

These lessons follow the AQA Spec, however, the spec is similar across the exams boards.

Paper 1

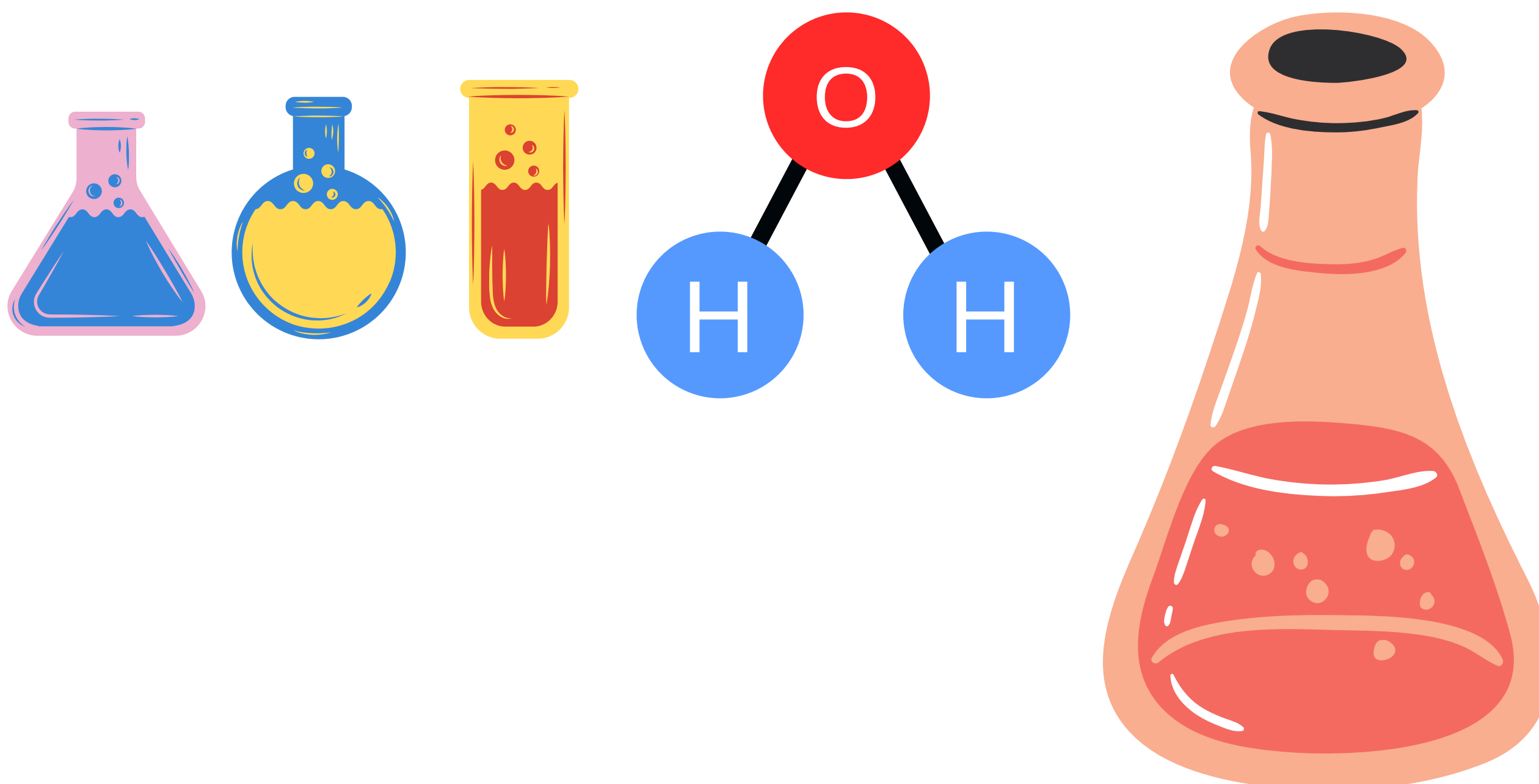
Atomic structure and the periodic table

Bonding, structure, and the properties of matter

Quantitative chemistry

Chemical changes

Energy changes



The 10 topics in GCSE Chemistry

These lessons follow the AQA Spec, however, the spec is similar across the exams boards.

Paper 2

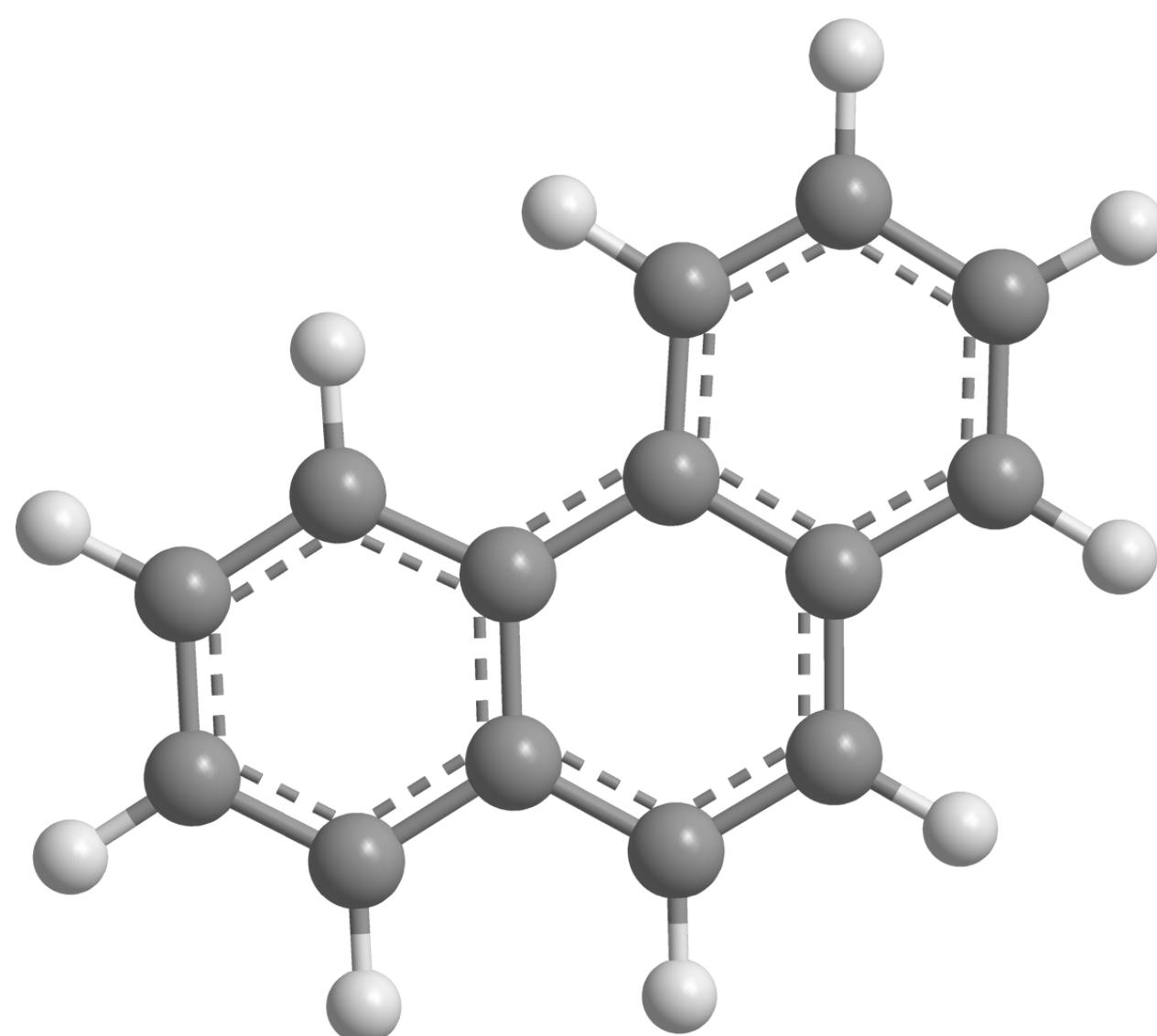
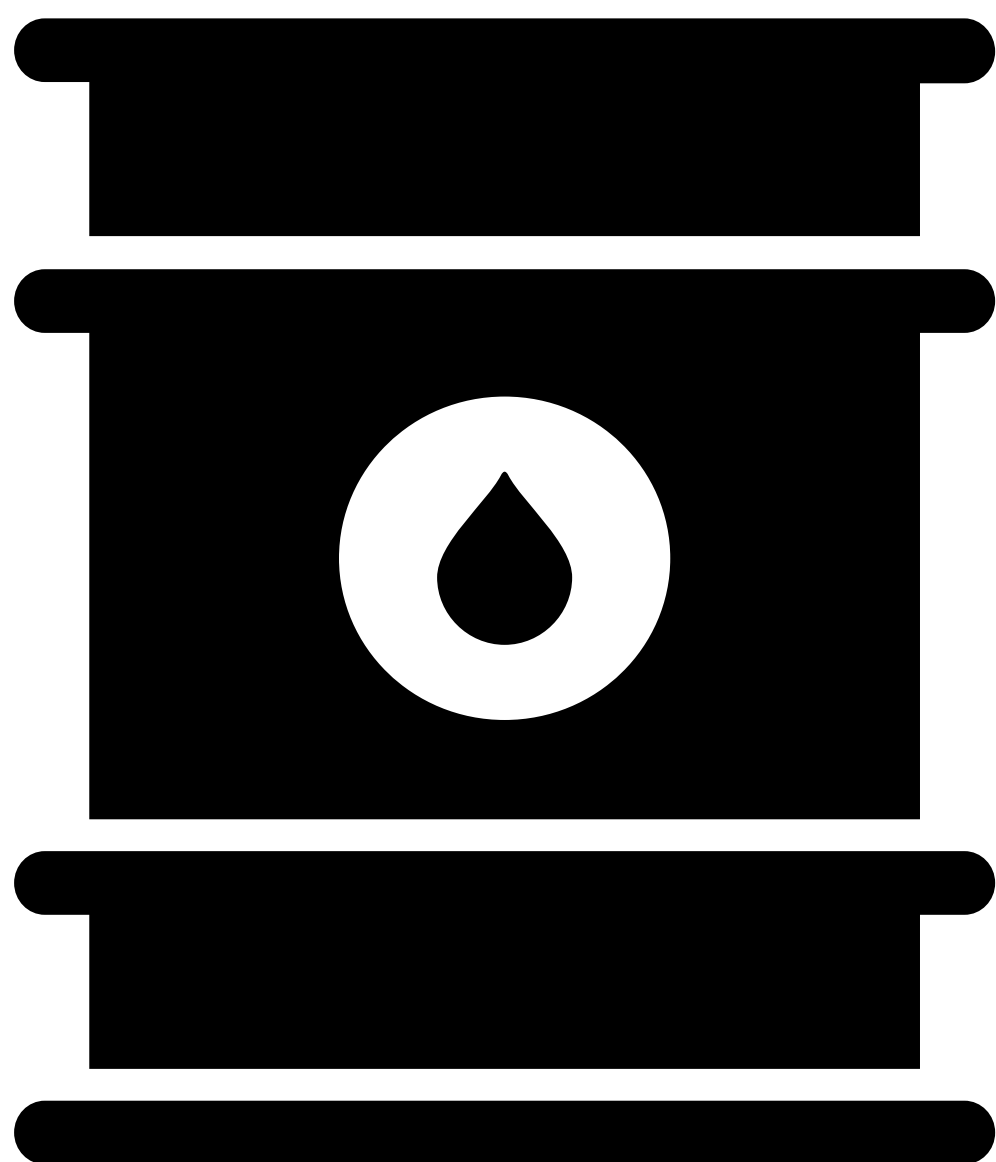
**The rate and extent of
chemical changes**

Organic chemistry

Chemical analysis

Chemistry of the atmosphere

Using resources





WHAT WILL YOU LEARN?

ATOMIC STRUCTURE AND THE PERIODIC TABLE

A simple model of the atom, symbols, relative atomic mass, electronic charge and isotopes

The periodic table

Properties of transition metals (triple only)

Oxidation and reduction in terms of electrons

BONDING, STRUCTURE, AND THE PROPERTIES OF MATTER

Chemical bonds, ionic, covalent and metallic

How bonding and structure are related to the properties of substances

Structure and bonding of carbon

Bulk and surface properties of matter including nanoparticles (triple only)

Titration (triple only)

Strong and weak acids (triple only)



WHAT WILL YOU LEARN?

QUANTITATIVE CHEMISTRY

Chemical measurements,
conservation of mass and
the quantitative
interpretation of chemical
equations

Use of amount of
substance in relation to
masses of pure
substances

Yield and atom economy
of chemical reactions
(triple only)

Using concentrations of
solutions (triple only)

Use of amount of
substance in relation to
volumes of gases (triple
only)

CHEMICAL CHANGES

Reactivity of metals

Reactions of acids

Electrolysis

ENERGY CHANGES

Exothermic and
endothermic reactions

Chemical cells and fuel
cells (triple only)



WHAT WILL YOU LEARN?

THE RATE AND EXTENT OF CHEMICAL CHANGE

Rate of reaction

Reversible reactions and
dynamic equilibrium

ORGANIC CHEMISTRY

Carbon compounds as
fuels and feedstock

Reactions of alkenes and
alcohols (triple only)

Synthetic and naturally
occurring polymers (triple
only)

CHEMICAL ANALYSIS

Purity, formulations and
chromatography

Identification of common
gases

Identification of ions by
chemical and
spectroscopic means (triple
only)

CHEMISTRY OF THE ATMOSPHERE

The composition and
evolution of the Earth's
atmosphere

Carbon dioxide and
methane as greenhouse
gases

Common a
tmospheric pollutants and
their sources



WHAT WILL YOU LEARN?

USING RESOURCES

Using the Earth's resources and obtaining potable water

Life cycle assessment and recycling

Using materials (triple only)

The Haber process and the use of NPK fertilisers (triple only)

ANSWERING EXAM QUESTIONS

The different exam questions

How to answer exam questions

Past paper walkthrough