

Subject: KS4 Y9 Chemistry		Year Group: 9
Term 1 Key Focus/Topic(s): States of Matter & Separation and Purification <ul style="list-style-type: none"> • Transformations of state • Filtration, chromatography, mixtures, distillation 	Term 2 Key Focus/Topic(s): Atomic Structure <ul style="list-style-type: none"> • Structure of atoms • Periodic table • Isotopes 	Term 3 Key Focus/Topic(s): Reactivity Series <ul style="list-style-type: none"> • Reactivity. • Oxidation, reduced and recycling • Ores
Term 1 Assessment Opportunities: <ul style="list-style-type: none"> • Classwork with a particular focus on key terminology and the structuring and writing of chemical equations. • Distillation investigation (core practical). • End of unit test. 	Term 2 Assessment Opportunities: <ul style="list-style-type: none"> • Classwork with a particular focus on key terminology and the structuring and writing of chemical equations. • End of unit test. 	Term 3 Assessment Opportunities: <ul style="list-style-type: none"> • Classwork with a particular focus on key terminology and the structuring and writing of chemical equations. • End of unit test.
Term 4 Key Focus/Topic(s): Fuels <ul style="list-style-type: none"> • Hydrocarbons • Fractional distillation • Combustion 	Term 5 Key Focus/Topic(s): Earth and Atmosphere Chemistry <ul style="list-style-type: none"> • Gases in the Atmosphere. • Climate change and pollution. 	Term 6 Key Focus/Topic(s): Acids <ul style="list-style-type: none"> • Acids, alkalis and indicators • Bases and salts
Term 4 Assessment Opportunities: <ul style="list-style-type: none"> • Classwork with a particular focus on key terminology and the structuring and writing of chemical equations. • End of unit test. 	Term 6 Assessment Opportunities: <ul style="list-style-type: none"> • Classwork with a particular focus on key terminology and the structuring and writing of chemical equations. • Extended writing task and student presentations. 	Term 6 Assessment Opportunities: <ul style="list-style-type: none"> • EoY exam • Preparing copper sulphate investigation (core practical). • Neutralisation investigation (core practical).

Rationale:

The topics covered in Year 9 constitutes the core areas of Chemistry: states of matter, atomic structure, chemical reactions, acids, alkalis, indicators and bases. Consequently, the topics covered are common to both single and combined science. The topics are also accessible for Year 9 science students as they introduce some basic concepts in chemistry and chemical equations. In Year 9 Chemistry we place a particular focus on:

- Key terminology - *chemistry involves a lot of terminology that is alien to most students so it is important to establish this early in the GCSE course.*
- The structuring and writing on word and symbol chemical equations.

Evaluation:

- Assessments opportunities will involve teacher, self and peer assessment. The assessment will focus around work produced in lessons where the students are required to demonstrate their use of key terminology, writing of chemical equations and their scientific knowledge.
- Practical work will be assessed through the three core practical investigations carried out in Year 9.
- Book scrutiny, lesson observations and collegial discussions will be used to quality assure teaching and learning. Qualitative observations will be made on students during the three core practical investigations.