



# THE ARNEWOOD SCHOOL

## KEY STAGE 5

### CHEMISTRY



## Implementation

There are transition tasks on Firefly which link directly to topics that are covered in year 12. The completed transition tasks are then referred to in class and direct links made with the specification.

## Year 12

Half term	Curriculum focus	Landmark assessment
Autumn 1	Students are split between two teachers with one teacher teaching inorganic chemistry and the other teaching organic chemistry. The inorganic chemistry starts with looking at atoms and compounds and basic calculations. Organic chemistry starts with the alkanes and the basic hydrocarbon concepts the students will build upon.	Students are given a recall test at the start of October There is also a formal assessment in the penultimate week in both Organic and Inorganic aspects of chemistry.
Autumn 2	Inorganic chemistry then works through topics on acids and redox reactions looking closely at the bonding of molecules. Organic chemistry looks at further molecules and their reactions in particular alkenes and alcohols.	Students are given a recall test at the start of November and December. There is also a formal assessment in the penultimate week in both Organic and Inorganic aspects of chemistry.
Spring 1	Inorganic chemistry then looks at how the bonding in atoms can affect the shape of molecules and the periodicity of atoms within the periodic table. Organic chemistry looks at further molecules and their reactions in particular haloalkenes and synthesis of molecules.	Year 12 January examinations Students are given a recall test at the start of February
Spring 2	Inorganic chemistry then looks at reactivity trends observed within the periodic table followed by looking at enthalpy. Organic chemistry then looks at spectroscopy and how to identify unknown molecules.	Students are given a recall test at the start of March and April. There is also a formal assessment in the





		penultimate week in both Organic and Inorganic aspects of chemistry.
Summer 1	Inorganic chemistry builds on the understanding of reactions by looking at the rates of reactions and equilibrium. The topics are reviewed during this time in preparation of the yr12 exams.	Students are given a recall test at the start of May and June. There is also a formal assessment in the penultimate week in both Organic and Inorganic aspects of chemistry.
Summer 2	Students continue to look at rates of reaction in more detail. Students also build fundamental key skills within a series of practicals.	Year 12 Summer examinations

### Year 13:

Half term	Curriculum focus	Landmark assessment
Autumn 1	Inorganic chemistry further build upon their knowledge of equilibrium from yr12. Organic chemistry looks at further molecules and their reactions in particular aromatic chemistry.	Students are given a recall test at the start of October. There is also a formal assessment in the penultimate week in both Organic and Inorganic aspects of chemistry.
Autumn 2	Inorganic chemistry further build upon their knowledge of equilibrium from yr12. Organic chemistry looks at further molecules and their reactions in particular carbonyl molecules and during this time synthesise aspirin.	Students are given a recall test at the start of November and December. There is also a formal assessment in the penultimate week in both Organic and Inorganic aspects of chemistry.
Spring 1	Inorganic chemistry further build upon their knowledge of enthalpy from yr12 and meet the concept of entropy. Organic chemistry looks at further molecules and their reactions in particular amines, amino acids and polymer molecules and during this time look further at synthesising molecules.	Year 13 January examinations
Spring 2	Organic chemistry further build upon their knowledge of spectroscopy from yr12 developing new methodologies. Inorganic	Students are given a recall test at the start of March and April.





	chemistry looks in more detail at redox reactions and transition elements.	There is also a formal assessment in the penultimate week in both Organic and Inorganic aspects of chemistry.
Summer 1	Pupils will be revising content and completing past paper questions in preparation for their final examinations.	A level examinations
Summer 2	Course complete	

