

## **KS4 Chemistry – Year 10**

	Topics Covered	Assessment
YEAR 10 AUTUMN TERM Weeks – 1-15  5th September – 21st December 2016	ATOMIC STRUCTURE AND THE PERIODIC TABLE - Simple models of the atom - Symbols - Relative atomic mass - Electronic charge - Isotopes - The periodic table - Properties of transition metals  BONDING AND STRUCTURE - Chemical bonds, ionic, covalent and metallic - Bonding and the properties of substances - Bulk and surface properties of matter including nanoparticles	Graded homework In-class assessments Formal PT1 examination
Year 10 Spring Term Weeks – 16-26 9th January – 31st March 2017	QUANTITATIVE CHEMISTRY - Chemical measurements - Conservation of mass - Yield and atom economy - Quantitative interpretation of chemical equations - Using concentrations in mol/dm3 - Using amount of substance in relation to volume of gases - Chemical changes - Electrolysis	Graded homework In-class assessments Formal PT2 examination
Year 10 SUMMER TERM Weeks – 27-39 17 <sup>th</sup> April – 21 <sup>st</sup> July 2017	ENERGY CHANGES - Endothermic and exothermic reactions - Chemical cells and fuel cells - Rate and extent of chemical change - Reversible reactions and dynamic equilibrium	Graded homework In-class assessments Formal PT3 examination (mock C1 Exam)

## **Progress Tracking Assessment dates**

PT1: 14th- 18th November 2016

PT2: 23<sup>rd</sup> January to 3<sup>rd</sup> February 2017

PT3: 19<sup>th</sup> to 30<sup>th</sup> June 2017