

CHEMISTRY – Year 11

Course title: GCSE CHEMISTRY	Exam board: AQA	Specification code: 8462
How will students be assessed?		
Students will sit two external exams at the end of Year 11. Each paper is worth 50% of their final GCSE grade. Both exams will be 1 hour and 45 minutes in length requiring students to answer multiple choice, structured, closed short answer and open response questions. Questions will be knowledge based as well as drawing on the practical work that students have completed throughout the course. Paper 1: This will assess the topic areas of atomic structure, the periodic table, bonding, structure, the properties of matter; quantitative chemistry, chemical changes and energy changes. Paper 2: This will assess the topic areas of organic chemistry, the rate and extent of chemical change, chemical analysis, chemistry of the atmosphere and how we use natural resources. At the end of each topic students will carry out an assessment in class.		

Half term	Key content
1	Energy Changes Students will carry out practical work and calculations to determine the energy changes in a range of chemical reactions. Required practical 4 – Temperature Changes Energy Changes Assessment
2	The rate and extent of chemical change Students will carry out a range of practical work changing conditions to affect the rate of a reaction. They will analyse results through graph work and calculations. They will learn about reversible reactions and apply their knowledge to the Haber process. Required practical 5 – Effect of Conditions on Rate of Reaction Rate of Reaction Assessment MOCK EXAM – Paper 1

3	Chemical analysis Students will analyse elements, compounds and mixture using a variety of practical techniques including chromatography, flame tests and solution tests. They will learn about how machines can be used to analyse substances. Required practical 6 – Chromatography Required practical 7 – Identification of a Salt Chemical analysis Assessment
4	Using Resources Students will study how society uses the Earth’s natural resources and how our impact on the environment can be reduced. They will learn how water is made fit to drink and sewage is treated. Students will also learn about the prevention of corrosion in metals and the structure of alloys, ceramics, polymers and composites. Required practical 8 – Water Analysis Using Resources Assessment
5	Revision