PCHS Curriculum Information

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. 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.

Chemistry GCSE 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.

Chemistry GCSE 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.

Half term	Key content
1	**Safety** **States of Matter** **Rates of Reaction** Students will be introduced to safe laboratory practices and apply this knowledge to a range of practical procedures within the context of states of matter and rates of Reaction
2	**CHEMISTRY ASSESSMENT 1 – States of Matter and Rates of Reaction** **Elements, Compounds and Mixtures** Students will learn to identify compounds and mixtures and to use the periodic table of elements to interpret formulae of compounds.
3	**Separation Techniques** Students will carry out a range of practical procedures to separate a variety of different mixtures **CHEMISTRY ASSESSMENT 2 – Elements, Compounds, Mixtures and Separation Techniques**

4	**Atomic Structure** Students will learn about the development of atomic structure models through time. They will learn how to deduce numbers of subatomic particles for atoms and ions and how to arrange these in the current atomic model.
5	**Periodic Table** Students will learn about the development of periodic table models through time. They will learn about the physical and chemical properties of elements in group 1, group 7, group 0 and the transition elements. **CHEMISTRY ASSESSMENT 3 – Atomic Structure and Periodic Table**
6	**Energy Changes** Students will complete further practical work within the context of energy changes and they will practice their graph drawing skills.

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