

HIGHFIELDS SCHOOL

OVERVIEW - SCHEME OF WORK 2022-2023



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SUBJECT: GCSE CHEMISTRY

EXAMINATION BOARD: OCR

AUTUMN TERM - YEAR 9	SPRING TERM - YEAR 9	SUMMER TERM - YEAR 9
<p>C1: Particles Atoms, molecules and compounds</p> <ul style="list-style-type: none">C1.1 - Particle modelC1.2 - Atomic structure <p>C4: Predicting and identifying reactions and products</p> <ul style="list-style-type: none">C4.1 - Predicting chemical reactions <p>Potential Practical Activities</p> <ul style="list-style-type: none">Metals and water reactionsMetals and acid reactionsMetal displacement reactionsGroup 7 halogens and displacement	<p>C4: Predicting and identifying reactions and products</p> <ul style="list-style-type: none">C4.2 - Identifying products of chemical reactions <p>C3: Chemical reactions</p> <ul style="list-style-type: none">C3.1 - Introducing chemical reactions <p>Revision and Exam preparation (4Rs)</p> <ul style="list-style-type: none">Mini-tests and quizzes for C1 and C4Past examination questionsStructured and multiple-choice questions <p>Potential Practical Activities</p> <ul style="list-style-type: none">Heating baking powder practicalTesting for gases: hydrogen, oxygen, carbon dioxide and chlorineFlame testsSodium hydroxide precipitate testsSulfate, carbonate and halide ion testsMetal and acid reactions	<p>C3: Chemical reactions</p> <ul style="list-style-type: none">C3.2 - EnergeticsC3.3 - Types of reactions <p>Revision and Exam preparation (4Rs)</p> <ul style="list-style-type: none">Mini-tests and quizzes for C3.1 - C3.3Past examination questionsStructured and multiple-choice questionsSummary sheetsForms, Seneca quizzes <p>Potential Practical Activities</p> <ul style="list-style-type: none">Measuring temperature changesProducing pure dry samples of saltMetal displacement reactionsDetermining pH of solutionsNeutralisation reactions
<p>ASSESSMENT</p> <ul style="list-style-type: none">C1.1 Atoms, molecules and compounds test.C1.2 Atoms test.C4.1 Predicting chemical reactions test.	<p>ASSESSMENT</p> <ul style="list-style-type: none">C4.2 Identifying products test.C3.1 Chemical reactions test. <p>Mid-Year exam covering C1 and C4 (HT)</p>	<p>ASSESSMENT</p> <ul style="list-style-type: none">C3.2 Energetics test.C3.3 Types of reaction test. <p>End of Year exam covering C3.1 - C3.3 (HT)</p>

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AUTUMN TERM - YEAR 10	SPRING TERM - YEAR 10	SUMMER TERM - YEAR 10
<p>C2: Elements, compounds and mixtures Review and teach</p> <ul style="list-style-type: none">C2.1 - Purity and separating mixturesC2.2 - Bonding <p>C3: Chemical reactions</p> <ul style="list-style-type: none">C3.4 – Electrolysis <p>Potential Practical Activities</p> <ul style="list-style-type: none">Separation practicals: filtration, distillation, evaporation and chromatographyElectrolysis practicals	<p>C2: Elements, compounds and mixtures</p> <ul style="list-style-type: none">C2.3 - Properties of materials <p>SINGLE SCIENCE</p> <p>C5: Monitoring and controlling chemical reactions</p> <ul style="list-style-type: none">C5.2 - Controlling reactionsC5.3 - Equilibria <p>COMBINED SCIENCE HT</p> <p>C5: Monitoring and controlling chemical reactions</p> <ul style="list-style-type: none">C5.1 - Controlling reactionsC5.2 – Equilibria <p>Potential Practical Activities</p> <ul style="list-style-type: none">Collecting a gas practicalRates of reaction: effects of temperature, concentration, surface area and catalysts	<p>C6: Global Challenges</p> <ul style="list-style-type: none">C6.1 - Improving processes and products <p>Revision and Exam preparation (4Rs)</p> <ul style="list-style-type: none">Mini-tests and quizzes for C1-C3Past examination questionsStructured and multiple-choice questionsSummary sheetsForms, Seneca quizzes
<p>ASSESSMENT</p> <ul style="list-style-type: none">C2.1 Purity and separating mixtures test.C2.2 Bonding test.C3.4 Electrolysis test.	<p>ASSESSMENT</p> <ul style="list-style-type: none">C2.3 Properties of materials test.C5 Controlling reactions test. <p>Practice exam: C1-C3 (HT/CH)</p>	<p>ASSESSMENT</p> <ul style="list-style-type: none">C5 Equilibria test. <p>End of Year exam: C1-C3 (HT/CH)</p>

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AUTUMN TERM - YEAR 11	SPRING TERM - YEAR 11	SUMMER TERM - YEAR 11
<p>SINGLE SCIENCE (HT) C5: Monitoring and controlling chemical reactions</p> <ul style="list-style-type: none">Review C5.2 - Controlling reactionsC5.3 - EquilibriaC5.1 - Monitoring chemical reactions <p>C6: Global Challenges</p> <ul style="list-style-type: none">C6.1- Improving processes and products <p>COMBINED SCIENCE (Combined HT) C5: Monitoring and controlling chemical reactions</p> <ul style="list-style-type: none">Review C5.1 - Controlling reactions <p>Review C5.2 – Equilibria</p> <p>C6: Global Challenges C6.1 - Improving processes and products C6.2 - Interpreting, interacting with Earth systems</p> <p>Revision and Exam preparation (4Rs)</p> <ul style="list-style-type: none">Mini-tests and quizzes for C1 – C3Past examination questionsStructured and multiple-choice questions <p>Potential Practical Activities</p> <ul style="list-style-type: none">Rates of reaction: Collecting a gas, making a precipitate, changing temperature, concentration, surface area and catalystsAcid-alkali TitrationsMaking fertilisersCorrosion and reducing corrosionCracking oil fractions	<p>SINGLE SCIENCE C6: Global Challenges C6.2 - Organic chemistry C6.3 - Interpreting, interacting with Earth systems</p> <p>COMBINED SCIENCE C6: Global Challenges C6.2 - Interpreting, interacting with Earth systems continued</p> <p>Revision and Exam preparation (4Rs)</p> <ul style="list-style-type: none">Mini-tests and quizzes for C1 – C6Past examination questionsStructured and multiple-choice questionsPAG questionsSummary sheetsForms, Seneca quizzes <p>Potential Practical Activities</p> <ul style="list-style-type: none">Water of crystallisationBromine water testHydrogen-oxygen fuel cell	<p>Revision and Exam preparation (4Rs)</p> <ul style="list-style-type: none">Mini-tests and quizzes for C1 – C6Past examination questionsStructured and multiple-choice questionsPAG questionsSummary sheetsForms, Seneca quizzes

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ASSESSMENT

- C5 Controlling reactions test.
- C5 Equilibria test.
- C5 Monitoring chemical reactions test (HT).

Pre-mock School exam: C1-C3 (HT/CH)

Pre-mock multiple choice exam: C1-C3 (HT/CH)

School exam: C1-C3 (HT/CH)

ASSESSMENT

- C6.1 Improving processes and products test.
- C6 Organic chemistry test (HT).
- C6 Interpreting, interacting with Earth systems.

Practice exams: C1-C3 and C4-C6 (HT/CH)

ASSESSMENT

Final GCSE Examinations

SINGLE SCIENCE

- Paper 03: C1-C3 and Paper 04: C4-C6 (HT)

COMBINED SCIENCE HT

- Paper 09: C1-C3 and Paper 10: C4-C6 (CH)