



SCIENCE YEAR PLANNER (LTP)

YEAR 10 CHEMISTRY (Triple Science)



Term	Learning content/skills	Assessment Schedule*	Home Learning Support (How students can extend learning in addition to homework)
Autumn 1	4.1 Atomic structure and the periodic table <ul style="list-style-type: none">4.1.3 Properties of transition metals 4.2 Bonding, structure and the properties of matter. <ul style="list-style-type: none">4.2.1. Chemical bonds, ionic, covalent and metallic4.2.2 How bonding and structure are related to the properties of substances4.2.3 Structure and bonding of carbon		<ul style="list-style-type: none">DoddlePurchase of relevant revision guideBBC BitesizeProduction of revision aidsCompletion of relevant past exams questions
Autumn 2	4.2 Bonding, structure and the properties of matter <ul style="list-style-type: none">4.2.4 Bulk the surface properties of matter including nanoparticles 4.3 Quantitative chemistry <ul style="list-style-type: none">4.3.1 Conservation of mass and the quantitative interpretation of chemical equations4.3.2 Use of amount of substance in relation to masses of pure substances	4.2 Bonding, structure and the properties of matter end of unit test + extra question on transition metals 4.3 Quantitative chemistry end of unit test	<ul style="list-style-type: none">DoddlePurchase of relevant revision guideBBC BitesizeProduction of revision aidsCompletion of relevant past exams questions
Spring 1	4.3 Quantitative chemistry <ul style="list-style-type: none">4.3.3 Yield and atom economy of chemical reactions4.3.4 Using concentrations of solutions in mol/dm³4.3.5 Use of amount of substance in relation to volumes of gases 4.4 Chemical changes <ul style="list-style-type: none">4.4.1 Reactivity of metals		<ul style="list-style-type: none">DoddlePurchase of relevant revision guideBBC BitesizeProduction of revision aidsCompletion of relevant past exams questions

*All assessments may be subject to alteration to best suit the learning needs of students.

Term	Learning content/skills	Assessment Schedule*	Home Learning Support (How students can extend learning in addition to homework)
Spring 2	4.4 Chemical changes <ul style="list-style-type: none"> • 4.4.2 Reactivity of acids • 4.4.3 Electrolysis 4.5 Energy changes <ul style="list-style-type: none"> • 4.5.1 Exothermic and endothermic reactions • 4.5.2 Chemical cells and fuel cells 	4.4 and 4.5 Chemical and energy changes end of unit test	<ul style="list-style-type: none"> • Doodle • Purchase of relevant revision guide • BBC Bitesize • Production of revision aids • Completion of relevant past exams questions
Summer 1	Preparation for Year 10 exams Start Year 11 course: 4.6 The rate and extent of chemical change <ul style="list-style-type: none"> • 4.6.1 Rate of reaction • 4.6.2 Reversible reactions and dynamic equilibrium 	4.6 The rate and extent of chemical change end of topic test	<ul style="list-style-type: none"> • Doodle • Purchase of relevant revision guide • BBC Bitesize • Production of revision aids • Completion of relevant past exams questions
Summer 2	4.7 Organic chemistry <ul style="list-style-type: none"> • 4.7.1 Carbon compounds as fuels and feedstock • 4.7.2 Reactions of alkenes and alcohols • 4.7.3 Synthetic and naturally occurring polymers 	4.7 Organic chemistry end of topic test	<ul style="list-style-type: none"> • Doodle • Purchase of relevant revision guide • BBC Bitesize • Production of revision aids • Completion of relevant past exams questions