			Curriculum Map 2025-26 Year 10 Combined			
Half term	Unit title with hyperlink to scheme of work	Unit summary	Skills & content covered	Skills & content revisited	Summary of formative marking, feedback and student	Summative assessment schedule, including assessment
Autumn Half-term 1	BA Bioenergetics	is this section we will explore how plants hamess the Sun's energy in photosynthesis in order to make food. This process liberates oxygen which has built up over millions of years in the Eurin's atmosphere. Both ominants and plants such the oxygen to adde food in a process called aerobic respiration which transfers the energy that the oxyganism needs to perform its functions. Conversels, makes bic respiration does not require oxygen to transfer energy. During (lipsous exercise the human body is unable to supply the cells with sufficient oxygen and its wintches to makes the respiration. This process will supply energy but allow causes the build-up of facitic acid in manctes which causes faligue.	1.Bhudosynthesis 2.Bate of photosynthesis 3.Ba tea of photosynthesis 3.Ba tea of photosynthesis 4.Bate of glucose 5.Benthe and an anerobic respiration 6.Benthe and an anerobic respiration 6.Begoine to exercise 7.Metabotism	runs are sugare so not reat, not use energy room upin, segment with carbon doxide and water for make guess (food) through photo synthesis. They either use the glucose as an energy source, to build new tissue, or store it for later use. Plants have specially subjected organs that allow them to obtain resources needed for photosynthesis. Describe ways in which parts obtain resources to photosynthesis. Describe ways in which parts obtain resources to photosynthesis. Explain why other organisms are dependent on Explain why other organisms are dependent on Sacketa in use graph to show how the rate of photosynthesis is pattered by changing conditions. Use a word equation to describe photosynthesis in plants and signe. Respiration is a series of chemical reactions, in cells, that breaks down glucose to provide energy and from monitorates. Plant treats vining things use aerostic respiration but switch to an aerostic respiration. Which provides lesses energy, then organism unavailable.	Sparx HW, in class teacher questioning, MCQ's, starter tasks	criteria EOTT
Autumn Half-term 1	<u>C3 Quantitative</u> <u>Chemistry</u>	Chemist use quantitative analysis to determine the formulae of compounds and the equations for nextions. Given this information, analysis can then use quantitative methods to determine the purity of chemical samples and to mointer the year for chemical executions. Chemical reactions can be classified in vindous ways, identifying different types of chemical reaction store, because the state of the other of the properties of	1. Conservation Of Mass 2. Mass Changes 3. Concentration 4.7. The Mole 8. Percentage Vield (triple only) 9. Aom Economy(triple only) 10. Concentration 2 (triple only) 11. Gas Volumes (triple only)	Chemical formulas and equations, Sovents, solutes and solutions.	Sparx HW, in class teacher questioning, MCQ's, starter tasks	ЕОТТ
Autumn 2	C4 Chemical Changes	Understanding of chemical changes began when people began experimenting with chemical reactions in a systematic way and organizing their results logically. Knowing about these different chemical changes ment that scientists could beg hot predict exactly what new substances would be formed and use this knowledge to offered mental and processes. It also helped blochemists to understand the complex reactions that take place in long organizants. The extraction of important resources from the earth makes use of the with the substances of the complex reactions that the change of the with the substances and compounds exact with each other and how easily they can be "pulled spair".	1. Metal Youldes 2. Reactivity Of Metals 3. Estraction Of Metals 3. Estraction Of Metals 4. Displacement Reactions 5. Metals and Acids 6. Forming Salls 7. Sall Formation Required 7. Sall Formation Required 7. Sall Formation Accutations (2 leasons) 5. Timation Calcutations (2 leasons) 6. Timation Calcutations (2 leasons) 7. Simation Required Practical 12. Estraction of Sall Salls 12. Estraction of Municipal 13. Estraction of Municipal 14. Estectophysis Of Aguerous Compounds 15. Estectophysis Required Practical 15. Estectophysis Required Practical 15. Estectophysis Required Practical	Chemical Reactions, Acids and Alkalis. Oxidation- the gain of oxygen and oils of electrons Reduction: the sold oxygen and gain of electrons Reduce notation and reduction occurring simultaneously Displacement— and rescribe element facts the place of a less Noutralisation the reaction element facts the place of a less Noutralisation- the reaction between an acid and alkali to form a start and value! Electrolysis- the splitting up of an ionic compound using electricity	Sparx HW, in class teacher questioning, MCQ's, starter tasks	EOTT
Autumn 2	CS Energy Changes	Energy changes are an important part of chemical reactions. The interaction of particles often involves transfers of energy due to the breaking and immation of boards. Reactions is which energy is extensed to the surroundings are exothernic; heartiers, while those that take in himmand energy are exothernic. These interactions between particles memory and possible of the particles of the particles of the energy applications. Some interactions between in an an electrolyte exempts application of electricity. Cells and batteries use these chemical snections to provide chemical snections to provide electricity. Electricity and slob to used to decompose lonic substances and is a useful means of producing elements that are too expensive to exercize any other ways.	Exothermic and Endothermic Reactions Metal and Acid Required practical Energy Profiles Bond Genegies (HT only) Satteries and Cells (HT only) Batteries and Cells (triple only) T-Fuel Cells (triple only)	Electricity, Particles.	Sparx HW, in class teacher questioning, MQQ's, starter tasks	ЕОТТ
Spring 1	85 Homeostasis, and Response	Calls in the body can only sowher within nations aphysical and chemical stills. They require a constant temperature and pri as well as a constant supply of dissolved food and water. In order to do this the body requires control systems that constantly mention and adjust the composition of the blood and issues. These control systems include receptors which is sense changes and effectors that bring shoot changes. In this sense changes and effectors that bring shoot changes is the store of the sense changes and effectors that bring shoot changes. However, the sense changes and by bring about mure blower changes. However, the sense of the	1 Momentalists 2 Mercous system 3. The brain (riple only) 4. The eye (triple only) 5. SPO (Resculos time 6. Selection ti	The menstrual cycle prepares the female for pregnancy and stops if the egg is fertilised by a sperm. The developing better seles on the mother to provide it with organization to remove what and protect it against the compared of the compa	Sparx HW, in class teacher questioning, MOQ's, starter tasks	ЕОТТ
Spring 1	<u>C& Rates</u>	Chemical reactions can occur of waitly different rates. Whilst the valication of chemicals is a significant factor in love fast chemical reactions proceed, there are many validates that can be manipulated in order to speed them up or slow them down. Chemical reactions may also be reversible and therefore the effect of different variables needs to be established in order to identify how to maximishe they led of desired product. Understanding energy changes that accompany chemical reactions is important for this product. The company chemical reactions is important for this product. While there may be componities to be made, they carry out optimisation processes to ensure that enough product is produced within a sufficient time, and in an energy-efficient was	1. Rates Introduction 2. Collision Theory and Surface Area 3. Effect Of Temperature 4. Effect Of Concentration 5. Required Pactical - Effect Of Concentration 6. Effect Of Codalysts 7. Equilibrium	Particle Theory Disappearing cross experiment. Chemical Reactions.	Sparx HW. in class teacher questioning, MCQ's, starter tasks	ЕОТТ
Spring 2	PSForces	The laws of gravity, elasticity, level and gears, describing motion and the pressure in fluids are all topics covered in the GCSE physics syldatus was deserted to the control of the cont	1. Forces syllabus topics included are accepted and sector quantities 3. Contact and sector quantities 3. Contact and non-contact forces 4. Gonly 5. Forces and elasticity 6. Moments, lever and gean 7. Pressure in fluids 6. Describing motion 9. Forces, acceleration and Newton's Lumo 10. Momentum	Motion Represent a journey on a distance-time graph. Describe quantitative relationship between average speed, Describe quantitative relationship between average speed, Describe that the property of the pro	Sparx HW. in class teacher questioning, MCQ's, starter tasks	ЕОІТ
Summer 1	C7 Organic Chemistry	The chemistry of carbon compounds is so important that it forms a separate branch of chemistry. A great variety of carbon compounds is so possible because cannot across can form chains and rings limited by C-C bonds. This branch of chemistry legs its name from the fact that the main sources of organic compounds are lifting. or once-living materials from plants and animals. These sources include frost lifted which are a war and the state of the control	Alkanes Practional Distillation Alkanes Practional Distillation Alkanes Combination	Chemical formulate Chemical Equations Chemical Resistors Combustion Separating Mintures Genetics	Spanx HW, in class teacher questioning, MCQ's, starter tasks	ЕОТТ
Summer 1	<u>C8 Chemical</u> Analysis	Analysts have developed a range of qualitative tests to detect specific chemicals. The design are consistent of the design and	Formulations and Purity Paper Chromatography Gas Tests Tests For Positive Ions Tests for Negative Ions Instrumental Analysis	Elements, Compounds, Motures Seperating Mixtures	Spanx HW, in class teacher questioning, MCQ's, starter tasks	ЕОТТ
Revision and mocks						