Year 10

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Art	Natural forms Observational drawing Building skills in various media Artist analysis				Fragments Making informed choices Mixed media exploration Independent Artist research	
Computing	• Focus on exam paper 1 content: o Systems architecture o Memory and storage o Computer networks, connections and protocols o Network security o Systems software o Ethical, legal, cultural and environmental impacts of digital technology					
Design	Introductory, practice and preparatory tasks and learning, with coursework projects beginning.					
Engineering	Introductory, practice and preparatory tasks and learning, with coursework projects beginning.					
Food	Introductory, practice and preparatory tasks and learning, with coursework projects beginning.					
Drama	An Inspector Calls - Plot, characters, context Theatre Practitioner workshops Component 1:Devising and performance *(design and performance options)*		An Inspector Calls - 4, 6 and 12 mark questions Component 1: Devising and performance *(design and performance options)*		An Inspector Calls - 9 and 14 mark questions Component 1: Written portfolio	
English literature	Shakespeare - Macbeth	GCSE Poetry Anthology	Finish Poetry 20th Century play - An Inspector Calls Start 19th Century Novel		19th Century novel A Christmas Carol GCSE Poetry Anthology	
English Language	Narrative writing	Paper 1 Reading Section	Non fiction transactional and persuasive writing	Spoken Language Endorsement Preparation	Paper 2 Reading	Mock exam revision and feedback
Geography	The Living World					

	Urban Issues and Challenges Physical Landscapes - Rivers Physical Landscapes - Coasts Field Work- Felixstowe					
Health and Social care	Prepare for internal assessment - R033 Explore component R032 - external exam		Prepare for internal assessment - R033 Explore component R032 - external exam		Submit R033 - internal assessment Explore component R032 - external exam	
History	How was the USA expanded & consolidated 1840-1895?			How did the Normans Conquer, Control & Change England		
Maths Foundation	Pythagoras and Problem Solving Right Angled Trigonometry and Bearings	Perimeter and Area Circles, Sectors, Cylinders, and Spheres	Equations, Inequalities, and Sequences Probability 1	Probability 2 Straight Line Graphs	Rules of Indices Ratio and Proportion	Transformations, Vectors, and Constructions Year 10 Exam Feedback and Revision
Maths Higher	Pythagoras and Right Angled Trigonometry Advanced Trigonometry and Bearings	Circles, Sectors, Cylinders, and Spheres Rules of Indices, Surds, and Standard Form	Straight Line Graphs Linear Inequalities and Linear Simultaneous Equations	Probability Circle Theorems	Statistics 1 Statistics 2	Transformations and Constructions Quadratics
MFL	Theme 1: Identity and culture Relationships with family and friends Marriage/partnership Technology Music Cinema and TV Food and eating out Sport Customs and festivals in French-speaking countries.		Theme 2: Local, national, international and global areas of interest Home, town, neighbourhood and region Charity/voluntary work Healthy/unhealthy living The environment Poverty/homelessness Travel and tourism		Theme 3: Current and future study and employment Topic 1: My studies Life at school/college Education post-16 Jobs, career choices and ambitions	
Music/Music technology	Component 1: Exploring Music Products and Styles Component 2: Music Skills Development Component 3: Responding to a Music Brief					

PE pathway	Sport Education season Health and Fitness block Sports Leaders award Alternative sports	Net/Wall block Fitness leaders award Dance leaders award Alternative sports	Striking and fielding Tennis block Athletics block (compulsory in preparation for sports day)
BTEC Sport	Prepare for component 1 internal assessment Explore component 3 - external exam	Prepare for component 1 internal assessment Explore component 3 - external exam	Component 1 - internal assessment and explore component 2 - internal assessment Explore component 3 - external exam
Dance	Explore professional dances 1, 2 and 3 (ALC, EofE, Shadows) Breathe and shift (solo performance) Section A dance knowledge	Explore professional dances 4, 5 and 6 (Infra, AT and WHE) Breathe and shift (solo performance) Section A dance knowledge	Duet/Trio - trapped. Prepare for practical performances in professional dances Mock practical and written papers
Core RS, Philosophy and Ethics	Conflict	Stereotypes	Medical Ethics
GCSE RS, Philosophy and Ethics	The Existence Of God & the Revelation	Christian Beliefs & Christian Practices	Buddhist Beliefs
Science Biology	During the first part of year 10 students learn about the growth of organisms with a focus on Mitosis; students will also understand more about asexual reproduction in plants. The structure and function of the nervous system and neurotransmission speeds are also explored in this part of the course. Next, students will study genetics and this includes: the structure of DNA, genes and alleles, Meiosis, Inheritance and genetic variation. This topic then leads into a unit of work around Evolution by Natural Selection, Selective Breeding and Genetic modification of organisms. The final topic studied deals with Health, Disease and the development of medicines where students look at the different types of pathogens and the effects that they have on animals and plants and the body's immunological response to infection. The effect of lifestyle factors on health is explored and correlations between various lifestyle choices are identified. Students complete a practical investigation into the effect of different antibiotics on bacteria.		
Science Chemistry	Firstly Y10 pupils learn about chemical bonding and how this explains much of the physical properties observed from year 7. Year 10 pupils further their KS3 understanding of neutralisation reactions with their newly gained knowledge of ions and ionic equations. Next, year 10 pupils apply their knowledge of neutralisation chemical reactions to the topic of acids and bases. This includes various methods of salt making and purification.		

	Groups in the periodic table provides a deep dive into specific families of elements and their reaction. Again application of knowledge is fostered to explain patterns in reactivity. Many of the ideas taught in year 9 and10 are brought together through Le Chatelier's Principle which tests pupils' application of many of the concepts taught. Pupils' practical skills are developed through experiments including titration and displacement reactions.
Science Physics	In the first half of year 10, pupils delve into two of the most fascinating areas of physics – radioactivity. They learn about the early ideas of atomic models and their development by Rutherford and his gold foil experiment. From these concepts they develop and understanding of what radioactivity is and it's dangers. Students return to the topic of electricity, building on their prior knowledge with more complex circuits, equations and components. Students then go on to study the effect that forces have on the world around them and learn to draw free-body diagrams to predict the movement of objects in the Universe. Finally, from the basics of magnetism, they develop an understanding of the complex interaction of electric and magnetic fields, eventually learning how magnets and electric current can interact to create movement in the motor effect

Year 11

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Art	Fragments Developing ideas Exam practise (mock)		Externally Set Task (40%) Title chosen from exam paper Jan - April		10 hour final exam	
Computing	• Focus on exam paper 2 content: o Algorithms o Programming fundamentals o Producing robust programs o Boolean logic o Programming languages and Integrated Development Environments • Revision of paper 1 and paper 2 topics					
Design	Coursework projects are ongoing and completed typically by Spring term, with an external exam in the Summer term.					
Engineering	Coursework projects are ongoing and completed typically by Spring term, with an external exam in the Summer term.					

Food	Coursework projects are ongoing and completed typically by Spring term, with an external exam in the Summer term.					
Drama	An Inspector Calls - Preparation for Mock exam Component 2: Rehearsals both after school and in lessons		An Inspector Calls - Revision Component 2: Rehearsals and exam Woman in Black - 6 and 9 mark questions, writing up notes		Revision for Component 3 exam (An Inspector Calls and Woman in Black)	
English Literature	Revise Shakespeare text and modern play text Revise and prepare for mock exams		Finish GCSE Poetry Anthology - and Romantics time and place poems: London, Living Space, Afternoons, To Autumn, She Walks In Beauty, Excerpt from The Prelude, Ozymandias, As Imperceptibly as Grief	Revise 19th Century novel and revise for second mock exams	Final revision and exam practice	
English Language	Revision of reading section and narrative writing for Paper 1 mock		Revision of Paper2 reading section and non - fiction writing forms for mock		Final revision	
Geography	Changing Economic World Natural Hazards Resource Management Paper 3 Pre Release					
Health and Social care	Prepare for component R032 - external exam Prepare for R034 - internal assessment		Prepare for R032 - external exam Prepare for R034 - internal assessment		Complete R032 - external exam Submit R034 - internal assessment	
History	How & why has medicine & health changed through time?		Why was there a Second World War?		How to do even better in the GCSE exam?	
Maths Foundation	Averages and Range	Fractions Laws of Indices and Standard Form	Quadratic Equations and Graphs	Congruence, Similarity Rearranging Formula		

	Multiplicative Reasoning Ratio and Proportion	Simultaneous Equations	Cubic and Reciprocal Graphs			
Maths Higher	Quadratics Compound Measures and Bounds Direct and Inverse Proportion Similarity and Congruence	Similarity and Congruence Algebraic Fractions Functions Algebraic Proof	Trigonometric Graphs Quadratic Inequalities Non-Linear Simultaneous Equations Iteration Cubics and Reciprocals	Vectors and Geometric Proof Transformation of Graphs Exponential Functions Area Under a Curve and Gradient of a Tangent		
MFL	Theme 1: Identity and culture Relationships with family and friends Marriage/partnership Technology Music Cinema and TV Food and eating out Sport Customs and festivals in French-speaking countries.		Theme 2: Local, national, international and global areas of interest Home, town, neighbourhood and region Charity/voluntary work Healthy/unhealthy living The environment Poverty/homelessness Travel and tourism		Theme 3: Current and future study and employment Topic 1: My studies Life at school/college Education post-16 Jobs, career choices and ambitions	
Music/ Music technology	Component 1: Exploring Music Products and Styles Component 2: Music Skills Development Component 3: Responding to a Music Brief					
PE options	Indoor games block Outdoor games block Health and Fitness Aesthetics block		Net/wall block Invasion games block Health and fitness Dance block			
BTEC Sport	Prepare for component 3 - external exam		Component 3 - external exam			

	Explore component 2 - internal assessment	Complete 2 - internal assessment	
Dance	Solos - Breathe and shift (10% of GCSE mark) Duet/Trio - Trapped (20% of GCSE mark) Filmed ========== Introduce Choreography once stimulus has been released from AQA	Choreography (30% of GCSE mark) Filmed Prepare for written paper	Written paper - 40% Revision of all sections in preparation for the exam.
GCSE RS, Philosophy and Ethics	Religion, peace and Conflict	Buddhist Practices	Revision
Science Biology	In the final year of study students are able to make synoptic links between multiple different topics covered during years 9 and 10; this will help deepen their understanding of the key concepts and how to apply this knowledge to exam style questions. Plant biology is an important topic in year 11 and the process of photosynthesis and plant structure are looked at in a high level of detail. There is an opportunity to practically investigate how abiotic factors affect the rate of photosynthesis and how other factors limit the rate. Students discover the wonders of the Endocrine system and how hormones play a crucial role in keeping organisms functioning at their optimal level. The final aspect in the curriculum is exchange and transports in animals where students get to dissect a mammalian heart and learn how the circulatory system supplies every cell of the body with the respiratory substances they require as well as carrying excretory products out of the body. Finally, students will look in detail at the fundamental biochemical reaction of respiration and how this releases the energy for life. In their final term of Biology at GCSE level, triple science students are introduced to protein synthesis, the structure of the eye and brain plus other content which will be useful should they wish to continue with the subject at A-Level. Year 11 Biology for combined science is designed to be shorter in length than the other years in order to maximise time for revision and mastery in the lead up to GCSE exams.		
Science Chemistry	Year 11 pupils begin Chemistry with an introduction to quantitative chemistry. Calculation of relative atomic mass and relative formula mass makes use of pupils' strong knowledge of the periodic table from KS3. Many pupils learn the concept of 'the mole' and apply this to several calculations used throughout Chemistry. Pupils then apply their knowledge of ions, ionic equations, reactivity and displacement from Year 8 and 10 topics. Pupils learn how many elements are separated from their compounds using electricity and compare this to industrial metal extraction processes.		

	Finally, pupils bring together many ideas taught throughout the course to look at how Chemistry affects our environment and the part we as human beings are playing. How can we reduce our carbon footprint? How can we produce clean drinking water? How do we extract metals from the Earth? And how can we do all of these things better to protect our environment? In their final term of Chemistry education at GCSE level, triple science pupils are introduced to the world of organic chemistry; compounds based in carbon. They understand how these compounds are used in everyday life and some of the issues that come with this. Analysis skills are extended to allow skilful identification of unknown compounds. Year 11 Chemistry for combined science is designed to be shorter in length than the other years in order to maximise time for revision and mastery in the lead up to GCSE exams.
Science Physics	Firstly, students use their knowledge of particles to study the density of different materials, learning how to measure the density of them using practical techniques and mastering the use of equations. Pupils' understanding of energy, which started with the first physics lesson of year 8 is solidified by studying specific heat capacity and different sources of energy. In the final term of year 11, triple students are introduced to astronomy, studying the very origins of the universe from the Big Bang to predictions about it's future. Students build on the concepts of radioactivity to describe nuclear fission and fusion and how nuclear reactors work. Year 11 physics for combined science is designed to be shorter in length than the other years in order to maximise time for revision and mastery in the lead up to GCSE exams.

Etc.