Key Stage 5

Year 12 Curriculum Overview

Dear Parents,

Welcome to our curriculum overview for Year 12 (Key Stage 5). In this document you will find listed the subjects taught and the content covered during your child's Year 12 education. The content listed is just an overview and gives you a flavour of the range of topics covered. Obviously, there is a lot more planning that goes into our curriculum and lessons.

I hope you find this document useful.

Kind regards,

Stephen Phipps

Vice Principal

Curriculum Map						
Year 12/13						
Subject: Art **A' Level**						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2

Topic	Coursework. Component1 Developing own project AO1 AO2 AO3 AO4	Coursework. Component1 Developing own project AO1 AO2 AO3 AO4	Exam preparation Component 2 AO1 AO2 AO3 AO4	Exam preparation Component 2 AO1 AO2 AO3 AO4		
Number of lessons	1 per week	1 per week	1 per week	1 per week	1 per week	1 per week
Assessment How will students be assessed?	Assessment at end of project	Assessment at end of exam	Assessment at end of exam	Assessment at end of exam		
Key Resources	Dry/wet materials	Dry/wet materials	Dry/wet materials	Dry/wet materials		
Skills taught: Exploration and development of ideas, research artists , movements and issues, experimentation and investigation of materials, techniques and processes, Synergy and presentation of ideas/final piece						

Curriculum Map
Year 12
Subject: AS Biology

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	-Cell Structure -Biological Molecules -Enzymes	- Cell Membranes and transport -The mitotic cell cycle -Nucleic acids and protein synthesis	-Transport in plants -Transport in mammals -Gas exchange	-Infectious Diseases -Immunity	-Cambridge Exams	-Cambridge Exams
Number of lessons	30	30	30	30	N/A	N/A
Assessment How will students be assessed?	-Topic tests -Half term test	-Topic tests -End of term test	-Topic tests -Practical -Half term test -Mock exams	-Topic tests -Practical -End of Term test -Mock exams	-N/A	-N/A
Key Resources	-Exam style questions	-Exam style questions	-Exam style questions	-Exam style questions	-N/A	-N/A
Skills taught: Scientific phenomena, facts, laws, definitions, concepts and theories • Scientific vocabulary, terminology and conventions (including symbols, quantities and units) • Scientific instruments and apparatus, including techniques of operation and aspects of safety • Scientific and technological applications with their social, economic and environmental implications • Locate, select, organise and present information from a variety of sources • Translate information from one form to another • Manipulate numerical and other data • Use information to identify patterns, report trends and draw inferences • Present reasoned explanations for phenomena, patterns and relationships • Make predictions and hypotheses • Solve problems, including some of a quantitative nature • Demonstrate knowledge of how to safely use techniques, apparatus and materials (including following a sequence of instructions where appropriate) • Plan experiments and investigations • Make and record observations, measurements and estimates • Interpret and evaluate experimental observations and data • Evaluate methods and suggest possible improvements.						

Curriculum Map
Year 12

Subject: AS Chemistry						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	Analytical techniques States of matter Atomic structure Atoms, molecules and stoichiometry	Chemical bonding The Periodic Table: chemical periodicity Group 2 Group 17 Chemical energetics	Equilibria Reaction kinetics Nitrogen and sulphur	Acid/Base/salts Electrochemistry An introduction to AS Level organic chemistry	Hydrocarbons Halogen compounds Hydroxy compounds Carbonyl compounds Carboxylic acids and derivatives Nitrogen compounds Polymerisation	Organic synthesis Review
Number of lessons	40	35	30	25	30	25
Assessment How will students be assessed?	Quiz Experiment Topic test/past paper	Quiz Experiment Topic test/past paper	Quiz Experiment Topic test/past paper	Quiz Experiment Topic test/past paper	Quiz Experiment Topic test/past paper	Past paper
Key Resources	Chemistry Cambridge International AS & A Level Chemistry Coursebook Lawrie Ryan, Roger Norris Textbook	Cambridge Assessment International Education	Experimental resources	Experimental resources	Chemistry Cambridge International AS & A Level Chemistry Coursebook Lawrie Ryan, Roger Norris	Cambridge Assessment International Education
Skills taught:						

The skills being taught in Year 12 Chemistry are:

- acquiring knowledge and understanding and develop practical skills, including efficient, accurate and safe scientific practices
- learning to apply the scientific method, while developing an awareness of the limitations of scientific theories and models
- developing skills in data analysis, evaluation and drawing conclusions, cultivating attitudes relevant to science such as objectivity, integrity, enquiry, initiative and inventiveness
- developing effective scientific communication skills, using appropriate terminology and scientific conventions
- understanding their responsibility to others/society and to care for the environment
- enjoying science and develop an informed interest in the subject that may lead to further study

Curriculum Map						
Year 12						
Subject: AS LEVEL Business Studies						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2

Topic **Unit 1** **Business and its environment (Chapters 1-5)** **Unit 2** **People in Organisation (Chapters 10-12)** **Unit 3** **Marketing (Chapters 16-19)** **Unit 4** **Operations and project management (Chapters 22-24)**	1.Enterprise 2.Businesses structure 3. Business Size	4. Business Objectives 5. Stakeholders in a business End of Unit 1 Assessment	10. Management and Leadership 11. Motivation 12. Human resource management End of Unit 2 Assessment .	16. What is Marketing 17. Market Research 18. Marketing mix The product and price 19. Marketing mix The promotion and place. End of Unit 3 Assessment	22. The Nature of operations 23: Operations planning 24. Inventory Management End of Unit 4 Assessment	28. Business finance 29. Costs 30. Accounting fundamentals 31. Forecasting and managing cash flow End of Unit 5 Assessment

Unit 5
Finance and Accounting (Chapters 28-31)

Number of lessons	6 weeks	4 weeks	6 weeks	8 weeks	6 weeks	7 weeks
Assessment How will students be assessed?	Contunious Questions and Answering Task in lessons End of chapters Exam questions	Contunious Questions and Answering Task in lessons End of chapters Exam questions	Contunious Questions and Answering Task in lessons End of chapters Exam questions	Contunious Questions and Answering Task in lessons End of chapters Exam questions	Contunious Questions and Answering Task in lessons End of chapters Exam questions	Contunious Questions and Answering Task in lessons End of chapters Exam questions

Key Resources	AS and A Level Cambridge book ICT/ youtube Powerpoint slides	AS and A Level Cambridge book ICT/ youtube Powerpoint slides	AS and A Level Cambridge book ICT/ youtube Powerpoint slides	AS and A Level Cambridge book ICT/ youtube Powerpoint slides	AS and A Level Cambridge book ICT/ youtube Powerpoint slides	AS and A Level Cambridge book ICT/ youtube Powerpoint slides
Skills taught. **Develop an understanding and gaining knowledge of the world of business.** **Improve literacy skills of reading and writing of English.** **Group interactions and study skills** **Independent learning**						

Curriculum Map						
Year 12						
Subject: Computer Science						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	Data Representation. Multimedia. Compression. Networks Including The Internet Computers and their Components. Logic Gates and Logic Circuits.	Central Processing Unit (CPU) Architecture. Assembly Language. Bit Manipulation. Operating Systems. Language Translators. Data Security. Data Integrity. Ethics.	Mock Examination on all previous topics. Database Concepts. Database Management Systems. Data Definition Language & Data Manipulation Language.	Computational Thinking Skills. Algorithms. Data Types & Records. Arrays. Files. Introduction on Abstract Data Types.	Programming Basics. Constructs. Structured Programming. Program Development Lifecycle. Program Testing & Maintenance.	Recap on topics Revision for End of Year Assessment.
Number of lessons	35	35	30	30	25	25

Assessment How will students be assessed?	End of topic exam style questions	End of topic exam style questions	End of topic exam style questions. Practice Exam - Topics 1-7	End of topic exam style questions	End of topic exam style questions	End of topic exam style questions. Practice Exam - Topics 8-12
Key Resources	Coursebook found online.	Coursebook found online.	Coursebook found online. Past Papers.	Coursebook found online.	Coursebook found online.	Coursebook found online. Past Papers.
Skills taught:						

Curriculum Map						
Year 12						
Subject: Maths (based on AS Mathematics Syllabus						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	• Required Knowledge review • Quadratics • Functions • Coordinate geometry • Circular measure	• Trigonometry • Series • Differentiation • Integration	• Representation of data • Permutations and combinations	• Probability • Discrete random variables • The normal distribution	• Completion of Units • Review of topics • Revision • Exam preparation with past papers	• Completion of Units • Review of topics • Revision Exam preparation with past papers
Number of lessons						

Assessment How will students be assessed?	Topic Tests	Topic Tests	Mock exam Topic Test	Topic Tests	Topic Tests	Topic Tests Revision worksheets Examination
Key Resources	Cambridge Syllabus and Resources Textbook Internet Past examination papers					

Skills taught:

- develop their mathematical knowledge and skills in a way which encourages confidence and provides satisfaction and enjoyment
- develop an understanding of mathematical principles and an appreciation of mathematics as a logical and coherent subject
- acquire a range of mathematical skills, particularly those which will enable them to use applications of mathematics in the context of everyday situations and of other subjects they may be studying
- develop the ability to analyse problems logically
- recognise when and how a situation may be represented mathematically, identify and interpret relevant factors and select an appropriate mathematical method to solve the problem
- use mathematics as a means of communication with emphasis on the use of clear expression
- acquire the mathematical background necessary for further study in mathematics or related subjects.

Curriculum Map
Year 12

Subject: English Literature AS and A Level Based on 5 hours per week

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2

Topic	Paper 1: Drama & Poetry John Webster: The Duchess of Malfi Maya Angelou: Still I Rise collection	Paper 1: Drama & Poetry Maya Angelou: Still I Rise collection	Paper 2: Prose and Unseen Kiran Desai: The Inheritance of Loss Various unseen texts and poems	Paper 2: Prose and Unseen Kiran Desai: The Inheritance of Loss Various unseen texts and poems	Revision AS Examination	Paper 3: Shakespeare and Drama Shelagh Stephenson: An Experiment With An Air Pump
Number of lessons	35	40	35	35	25	20
Assessment How will students be assessed?	Exam style questions Seneca Learning	Exam style questions Seneca Learning End of term full exam	Exam style questions.	Mock Exam		Exam style questions
Key Resources	**Maya Angelou: Still I Rise collection* John Webster: The Duchess of Malfi ***	**Maya Angelou: Still I Rise collection* John Webster: The Duchess of Malfi ***	**Kiran Desai: The Inheritance of Loss ***			**Shelagh Stephenson: An Experiment With An Air Pump***

Skills taught:
AO1 Knowledge and understanding Respond with understanding to literary texts in a variety of forms, from different cultures; with an appreciation of relevant contexts that illuminate readings of the texts.
AO2 Analysis Analyse ways in which writers' choices of language, form and structure shape meanings and effects.
AO3 Personal response Produce informed independent opinions and interpretations of literary texts.
AO4 Communication Communicate a relevant, structured and supported response appropriate to literary study.
AO5 Evaluation of opinion Discuss and evaluate varying opinions and interpretations of literary texts.

Curriculum Map						
Year 12						
Subject: French						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2

Topic	La famille en voie de développement Describe trends in marriages Different family structures Relation between generations	La Cyber-société Discuss and describe how technology developed everyday Danger on digital technology Different users and future development	Le role du benevolat Voluntary sector in France Benefits of voluntary work and who are helped	Une culture fière de son patrimoine Understand heritage preservation Héritage and tourism Impact of the heritage on the culture	La musique francophone contemporaine Popularity and francophone music and its diversity Who listen to this type of music Threats and safeguard of the music	Le 7eme Art Aspects of French cinema The history of French cinema Continuity of the popularity and film festivals
Number of lessons						
Assessment How will students be assessed?	In-class formative assessments. End of unit assessment	In-class formative assessments. End of term assessment	In-class formative assessments. End of unit assessment	In-class formative assessments. End of term assessment	In-class formative assessments. End of unit assessment	In-class formative assessments. End of term assessment
Key Resources	Cambridge School support hub AQA Kerboodle AS level Techer's resources	Cambridge School support hub AQA Kerboodle AS level Techer's resources	Cambridge School support hub AQA Kerboodle AS level Techer's resources	Cambridge School support hub AQA Kerboodle AS level Techer's resources	Cambridge School support hub AQA Kerboodle AS level Techer's resources	Cambridge School support hub AQA Kerboodle AS level Techer's resources
Skills taught: **4 language skills** **-Speaking** **-Listening** **-Reading** **-Writing**						

Curriculum Map						
Year 12/13						
Subject: Core PE						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	Football Badminton	Basketball Table Tennis	Volleyball Health and Fitness	Handball Gymnastics	Athletics Tag Rugby	Athletics Dance
Number of lessons	6 Lessons	8 Lessons	6 Lessons	7 Lessons	5 Lessons	5 Lessons
Assessment How will students be assessed?	● CORE PE is a subject which is not assessed with summative assessment. ● Teachers will continually assess and provide detailed verbal feedback both individually and as teams for students to take on board and implement changes. ● Students undertaking GCSE will use assessment from their practical elements and work on this in their core PE lessons. ● Teachers may use conditions and adaptations of rules to facilitate the learning of certain tactics and strategies, before moving into the traditional rules.					
Key Resources	Footballs Cones Goals Badminton Racket Shuttles Badminton Nets.	Basketballs Cones Holahoops Table tennis tables. Bats Balls Nets	Volleyballs Cones Volleyball net. Fitness Equipment (wide range)	Handballs Cones Safety mats Operators Apparatus(wide range)	Athletics Equipment Tags Rugby balls Cones	Athletics Equipment Loose clothing Mats

Skills taught:

● Some activities are taught through a Sports education model, with students taking more responsibility for their learning. ● Some activities are taught as a training squad for inter-school matches, trying to build a culture of lifelong love for participating in competitive sport.

● Activities will focus on developing tactical understanding and strategies to overcome opponents through match play. Teachers may use conditions and adaptations of rules to facilitate the learning of certain tactics and strategies, before moving into the traditional rules ● Students will develop their leadership skills and ability to organise groups.

● Students will also have ample opportunities to further their skills in umpiring and officiating sports covered, which provide an alternative route into competitive sport post school.

● Students enter a range of local, regional and national level competitions.

Curriculum Map						
Year 12						
Subject: Physics						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	• Physical quantities and units • Measurement techniques • Kinematics	• Dynamics • Forces, density and pressure • Work, energy and power	• Deformation of solids • Waves Superpositionn	• Electric fields • Current of electricity	• D.C. circuits • Particle and nuclear physics	• Completion of Units • Review of topics • Revision Exam preparation with past papers
Number of lessons						
Assessment How will students be assessed?	Topic Tests Practical Work	Topic Tests Practical Work	Mock exam Topic Test	Topic Tests Practical Work	Topic Tests Practical Work	Topic Tests Revision worksheets Examination

Key Resources	Cambridge Syllabus and Resources Textbook Internet Past examination papers

Skills taught:

- Learn about unifying patterns and themes in physics and use them in new and changing situations
- Acquire knowledge and understanding of physical facts, terminology, concepts, principles and practical techniques
- Evaluate physical information, making judgements on the basis of this information
- Appreciate the practical nature of physics, developing experimental and investigative skills based on correct and safe laboratory techniques • Analyse, interpret, and evaluate data and experimental methods, drawing conclusions that are consistent with evidence from experimental activities and suggesting possible improvements and further investigations Develop a logical approach to problem solving
- Select and apply appropriate areas of mathematics relevant to physics as set out under each topic