



St Katherine's School

Year 10 Curriculum Guide

Maths

Term	Foundation	Higher
1	<p>Unit 5a - Equations and inequalities</p> <p>Unit 5b - Sequences</p> <p>Unit 6 - Properties of shapes, parallel lines and angle facts. Interior and exterior angles of polygons</p>	<p>Unit 5b - Pythagoras and right angled trigonometry</p> <p>Unit 6a/b - Straight line graphs</p>
2	<p>Unit 6 - Properties of shapes, parallel lines and angle facts. Interior and exterior angles of polygons</p> <p>Unit 7 - Statistics, sampling and the averages</p>	<p>Unit 6a/b - Straight line graphs</p> <p>Unit 6c - Graphs of circles, quadratics, cubics and other graphs</p> <p>Unit 7 - Perimeter, area and circles</p>
3	<p>Unit 8 - Perimeter, area and volume</p> <p>Unit 9 - Real-life and straight line graphs</p>	<p>Unit 7 - 3D forms and volume, cylinders, cones and spheres, accuracy and bounds</p> <p>Unit 8 - Transformations, loci, constructions and bearings</p>
4	<p>Unit 9 - Real-life and straight line graphs</p> <p>Unit 10 - Transformations</p> <p>Unit 11 - Ratio and Proportion</p>	<p>Unit 9 - Solving quadratic and simultaneous equations</p> <p>Unit 10 - Probability</p>
5	<p>Unit 11 - Ratio and Proportion</p> <p>Unit 12 - Right-angled triangles: Pythagoras and trigonometry</p>	<p>Unit 10 - Probability</p> <p>Unit 11 - Multiplicative reasoning</p>
6	Revision of Units 1 - 12, End of Year 10 Assessment and MAD Time	Revision of Units 1 - 11, End of Year 10 Assessment and MAD Time

English and Media Studies

Once a fortnight, all students complete 'The Writing Challenge', an extended writing task akin to tasks they will need to be able to complete in their English Language examinations.

All students are expected to read for at least twenty minutes a day and must bring their book to school every day.

Term	Topic	Key Information
1 and 2	<p>English Language Exam Techniques: Component 2 - C19th and C21st texts and transactional Writing.</p> <p>English Literature Component 2 - Priestley's <i>An Inspector Calls</i></p> <p>English Literature Component 1 - Selected poems from the poetry anthology</p>	<p>We will supply copies of the poetry anthology.</p> <p>We can loan copies of <i>An Inspector Calls</i>, but recommend that students have their own copy.</p>
3 and 4	<p>English Language Exam Techniques: Component 2 - C19th and C21st texts and transactional Writing.</p> <p>English Literature Component 2 - Austen's <i>Pride and Prejudice</i></p> <p>English Literature Component 1 - Selected poems from the poetry anthology</p>	<p>We can loan copies of <i>Pride and Prejudice</i>, but recommend that students have their own copy.</p>
5 and 6	<p>English Literature and Language Revision</p> <p>Speaking and Listening Examination preparation and assessment</p>	<p>Mock Examinations</p> <p>English Language Component 2: C19th and C21st texts and transactional Writing</p> <p>Bespoke Literature Exam: <i>An Inspector Calls, Pride and Prejudice</i> and the Poetry Anthology</p> <p>Speaking and Listening Examinations</p>

Science

Triple Science AQA

Term	Biology	Chemistry	Physics
1	<ul style="list-style-type: none"> Cell division Communicable disease 	<ul style="list-style-type: none"> The periodic table Structure and bonding 	<ul style="list-style-type: none"> Energy transfer by heating Conservation and dissipation of energy
2	<ul style="list-style-type: none"> Preventing and treating disease Non-communicable diseases Photosynthesis 	<ul style="list-style-type: none"> Chemical calculations 	<ul style="list-style-type: none"> Electric circuits Electricity in the home
3	<ul style="list-style-type: none"> Respiration The human nervous system 	<ul style="list-style-type: none"> Chemical Change 	<ul style="list-style-type: none"> Molecules and matter Radioactivity
4	<ul style="list-style-type: none"> Hormonal coordination Homeostasis 	<ul style="list-style-type: none"> Electrolysis Energy Changes 	<ul style="list-style-type: none"> Forces in balance Motion
5	<ul style="list-style-type: none"> Reproduction Revision 	<ul style="list-style-type: none"> Rates and equilibrium 	<ul style="list-style-type: none"> Force and motion Force and pressure
6	<ul style="list-style-type: none"> Revision Mock Exams 		

Combined Science - Trilogy AQA

Term	Biology	Chemistry	Physics
1	<ul style="list-style-type: none"> Cell division Communicable disease 	<ul style="list-style-type: none"> The periodic table Structure and bonding 	<ul style="list-style-type: none"> Energy transfer by heating Conservation and dissipation of energy
2	<ul style="list-style-type: none"> Preventing and treating disease 	<ul style="list-style-type: none"> Chemical calculations 	<ul style="list-style-type: none"> Electric circuits
3	<ul style="list-style-type: none"> Non-communicable diseases 	<ul style="list-style-type: none"> Chemical Change 	<ul style="list-style-type: none"> Electricity in the home
4	<ul style="list-style-type: none"> Photosynthesis Respiration 	<ul style="list-style-type: none"> Electrolysis 	<ul style="list-style-type: none"> Molecules and matter
5	<ul style="list-style-type: none"> The human nervous system 	<ul style="list-style-type: none"> Energy Changes 	<ul style="list-style-type: none"> Radioactivity
6	<ul style="list-style-type: none"> Revision Mock Exams 		

Design, Art & Technology

Art

Project 1 – Natural Forms

Project 2 – Personal Project

AO1	Artist research: <ul style="list-style-type: none">● Independently sourcing relevant artists:<ul style="list-style-type: none">○ Google research○ Gallery visits○ RWA/Botanical Gardens visit● Relevant backgrounds● Transcripts with relevant use of media● Relevant presentation● Analytical and personalised writing
AO2	Independently refine ideas through experimenting and selecting appropriate resources, media, techniques and processes
AO3	Revisit monochromatic observational drawing skills: <ul style="list-style-type: none">● Tonal shading● Texture● Blending● Sketching and ‘building up’ Recording ideas through photography: <ul style="list-style-type: none">● Composition● Foreground and background Revisit colour techniques: <ul style="list-style-type: none">● Warm / cool / complementary / contrasting● Tints and tones White gel pen / white coloured pencil on black: <ul style="list-style-type: none">● Line / pattern / detail Paint – acrylic / watercolour / brusho / ink: <ul style="list-style-type: none">● Thick opaque layers and thin washes● Brush / palette knife● Painting onto dry / wet surfaces● Scratch into paint with card● Drybrushing Spraypaint: <ul style="list-style-type: none">● Stencils● OHP Clay: <ul style="list-style-type: none">● Slabs and coils● Black and metallic dry- brushing Printing: <ul style="list-style-type: none">● Rubber stamping● Frottage
AO4	Present an independent, personal and well considered response with strong, relevant connections to appropriate artists and sources

Engineering Design

Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Product Analysis task	R106 coursework task - Product Analysis		R107 coursework task - Development of an idea		
Sessions on presentation of work, drawing styles, Computer aided design & manufacture and practical skills					
Unit R105 theory knowledge				Revision for unit R105 Exam	Unit R105 Exam

Hospitality

Unit No & Title	Assignment Title
Unit 2: Working in the Hospitality Industry	1 of 2: Importance of work skills in hospitality industry
Unit 2: Working in the Hospitality Industry	2 of 2: Demonstrating work skills in hospitality industry
Unit 6: Preparing and Cooking Food	1 of 2: Planning a nutritious meal
Unit 6: Preparing and Cooking Food	2 of 2: Cooking a nutritious meal

Business

Level 2 OCR Enterprise and Marketing: students study 3 units over two years

Term	Topic	Key Information
1 and 2	<p>Introduction to business studies:</p> <ul style="list-style-type: none"> • What is business studies? • Needs and wants goods and services • Sectors of industry • Chain of production • Types of business <p>Market segmentation</p> <p>Market research</p> <ul style="list-style-type: none"> • Primary • Secondary <p>Business finance:</p> <ul style="list-style-type: none"> • Business costs • Revenue • Breakeven • Profit and Loss <p>Product life cycle</p> <p>Extension strategies and product differentiation</p> <p>External factors that impact a business</p>	<p>Independent research project to find out about businesses in the local area and how this has changed over time.</p> <p>Homework set weekly</p>
3 and 4	<p>Pricing types</p> <p>Sales promotion</p> <p>Forms of ownership:</p> <ul style="list-style-type: none"> • Sole trader • Partnership • PLC / LTD • Non profit <p>Sources of capital</p> <p>Importance of a business plan</p> <p>Functional areas in business</p> <p>Importance of functional areas</p>	<p>Students will sit their unit exam which counts to 50% of their final grade</p>
5 and 6	<p>Design a product:</p> <ul style="list-style-type: none"> • Market segmentation • Customer Profile • Market research • Sampling methods • Product design <p>Unit continues into year 11 term 1.</p>	<p>Externally set assignment 25% of final grade.</p>

Computing

In years 10 and 11 the students who opt for computing study the OCR GCSE Computing (J276) specification.

The GCSE is assessed by two external written exams at the end of Year 11, each worth 50% of the final grade.

There is also a 20-hour non-examined assessment task, which the students must complete to a satisfactory standard to pass the course.

Term	Topics
1	1.1 Systems Architecture 1.2 Memory 2.1 Algorithms
2	1.3 Storage 2.2 Programming Skills
3	1.4 Wired and Wireless Networks
4	1.5 Network Topologies, Protocols and Layers 2.2 Programming Skills 2.3 Producing Robust Programs
5	1.6 Systems Security 1.7 Systems Software 2.2 Programming Skills
6	1.8 Ethical, Legal and Cultural Issues of Computing 2.5 Translators and Facilities of Languages

Humanities

Term	Geography	History	Philosophy & Belief	Society & Culture
1	Paper 1: <i>Topic 4</i> Sustaining Ecosystems	Paper 1: Medicine in Britain c. 1250 to present day. <ul style="list-style-type: none"> - Middle Ages: 1250-1500 - Medical Renaissance: 1500-1700 - Medicine in 18th & 19th Centuries - Modern Medicine 1900+ 	Component 2 – Christianity Beliefs and Teachings: The Nature of God; Creation; Jesus; Salvation; The after life	Religion: Fundamentalism vs. Moderatism. Christianity and atheism.
2	Paper 2: <i>Topic 5</i> Urban Futures			
3	Paper 1: <i>Topic 1</i> Global Hazards	Paper 1: The historic environment: The British sector of the Western Front, 1914-18: injuries, treatment & the trenches. Paper 2: Henry VIII and his ministers 1509-1540. <ul style="list-style-type: none"> - Henry & Wolsey - Henry & Cromwell - The Reformation 	Component 1 – Relationships: marriage/families; Sexual Relationships; Issues of Equality; gender prejudice and discrimination Life & Death The origin of the universe & world; The origin and value of human life; Religion & Science Beliefs about death & the after life; Abortion; Euthanasia	Drugs: Legalisation debate, consequences of drug use on individuals and communities.
4	Paper 2: <i>Topic 7</i> UK in the 21st Century			
5	Paper 1: <i>Topic 3</i> Distinctive Landscapes			
6	Fieldwork		Component 3 – Buddhism Beliefs & Teachings: The Buddha; The Dhamma; The Four Noble Truths; The human personality; Human destiny and ethical teachings	Politics: political spectrum, the political parties and their principal policies. MPs and their job roles.

Modern Foreign Languages

Date	TOPIC
September 4 weeks	Identity and culture > Me, my family and friends > Relationships with family and friends ASSESSMENT - Grammar test + Reading
October 4 weeks	Local, national, international and global areas of interest > Home, town, neighbourhood and region ASSESSMENT - Speaking + Translation task
November 4 weeks	Identity and culture > Free-time activities / Music / Cinema and TV / Food and eating out / Sport ASSESSMENT - Listening, reading, writing
December 3 weeks	Current and future study and employment > My studies ASSESSMENT - Writing task
January 4 weeks	Local, national, international and global areas of interest > Social issues > Healthy/ unhealthy living ASSESSMENT - Listening, reading, writing OR Speaking
February- March 5 weeks	Current and future study and employment > Life at school/ college ASSESSMENT - Speaking + Translation task OR Writing + listening
April 3 weeks	Current and future study and employment > Education post-16 ASSESSMENT - Listening, reading, writing
May 4 weeks	Identity and culture > Customs and festivals in French-speaking countries/ communities ASSESSMENT - Listening, reading, writing
June 4 weeks	Local, national, international and global areas of interest > Travel and tourism ASSESSMENT - Speaking + Writing task
SUMMER WORK	Identity and culture > Me, my family and friends > Marriage/ partnership ASSESSMENT - Speaking, Listening, reading, writing
July 2 weeks	REVISION

Performing Arts

Drama

Term	Topic
1	Intro Drama games, warm up activities. Two by Jim Cartwright. Monologues/Duologues from plays for C2 Performing Theatre (different time period and context).
2	Introduction to practitioner's workshops. Theatre language. Leading into devising. Stanislavski, Verbatim, Brecht, Black box theatre, Physical theatre Frantic Assembly. Leading into devising. Mini practical tasks.
3	Mock C1 devised performance using stimulus from exam board. Perform, evaluate, portfolio.
4	Perform mock C1 , written portfolio, evaluation to be completed. Mini tasks on practitioners to recap techniques/genres - Brecht, Stan, Frantic. Live theatre performance.
5	Text C3: DNA. Focus analysis, story, character as well as directing & staging ideas. Theatre review - notes and written. Watching Woman in Black. Make notes and prep for written exam C3 Set text. perform scenes develop knowledge and understanding. Set written exam questions. Theatre Language. Writing notes with written evaluation exam mock C3 end of this term.
6	Continue set text for C3. Focus on analysis, story, character as well as directing & staging. Lighting, costumes, etc to be considered as well. Performance skills. Performance for audience. Evaluation.). On going logbooks to use as a revision guide for next year. Mini mock on devising - verbatim theatre with Brecht.

Music

Term	Topic
1	<p>Course introduction</p> <p>Music theory: stave notation, clefs, rhythm, note lengths, time signatures, simple and compound time signatures, structure, dynamics</p> <p>Listening: Popular Music (Broadway 1950 – 1990, rock music of 60's/70's, film and computer game music 1990 onwards, pop music 1990 onwards)</p> <p>Preparation for mock solo performance</p>
2	<p>Music theory: instruments and their families, identifying instruments, types of voice, texture</p> <p>Listening: Traditional Music (Blues 1920-1950, fusion music, African music, Caribbean music, contemporary Latin music, contemporary British folk music)</p> <p>Preparation for mock ensemble performance</p>
3	<p>Music theory: key signatures, scales, arpeggios, chords, tonality</p> <p>Listening: Western Classical Tradition 1650–1910 (Coronation anthems and oratorios of Handel, orchestra music of Haydn, Mozart and Beethoven, piano music of Chopin and Schumann, requiem of late Romantic period)</p> <p>Introducing composition: group tasks</p>
4	<p>Music theory: intervals, cadences, rhythm and pitch dictation</p> <p>Listening: Western Classical Tradition Since 1910 (orchestral music of Copland, British music of Arnold, Britten, Maxwell-Davies and Tavener, orchestral music of Kodaly and Bartok, minimalist music of John Adams, Steve Reich, Terry Riley)</p> <p>Introducing composition: start work on free choice composition</p>
5	<p>Music theory: how to follow a score, dealing with skeleton scores, structure</p> <p>Listening: Beatles study pieces; <i>Lucy In The Sky With Diamonds</i>, <i>Within You Without You</i>, <i>With A Little Help From My Friends</i></p> <p>Introducing composition: continue to work on free choice composition</p>
6	<p>Music theory: rhythm – syncopation, hemiola, augmentation, diminution, cross rhythm, polyrhythm, anacrusis</p> <p>Listening: Haydn Clock Symphony 2nd movt study piece</p> <p>Introducing composition: continue to work on free choice composition, score and programme note</p>

Physical Education

All year 10 students will follow a core PE curriculum. Some year 10 students may also opt for examination PE which will occur in addition to their core PE lessons.

Core PE

In key stage 4 staff will provide groups with more flexibility about the types of activities that they participate in. Some groups may have the opportunity to opt for blocks of activity while others may experience a variety of activities in lessons. Their activity options will depend on the staffing of their PE group.

Staff reserve the right to remove options from groups should their behaviour / cooperation mean that this process is not viable.

Examination PE

September – February: Fitness for Sport and Exercise (externally examined unit)

- Components of fitness
- Exercise intensity
- Principles of training
- Training methods
- Fitness testing

February – July: Practical Sports Performance

- Rules, regulations and scoring systems in sport
- Roles and responsibilities of officials in sport
- Practical sports performance
- Performance analysis