

St Martin's School

Curriculum Maps 2020/2021



Year 9 – Autumn Term
Curriculum Plans

Year 9 Curriculum Plans – Autumn Term 2020

Year 9 Mathematics

Higher Sets	<u>Expressions, Equations and Formula</u> : Solve simultaneous linear equations; factorise quadratic expressions; solve quadratics by factorising; linear inequalities; know the shapes of quadratic and cubic graphs.
	<u>Powers and Roots</u> : Fractional and negative powers; simplifying surds; expand single brackets with surds; convert numbers to and from standard form
	<u>Fractions, Decimals and Percentages</u> : Algebraic fractions involving four operations; changing a recurring decimal to a fraction; calculate simple and compound interest; calculate reverse percentages; finding the term of investment
	<u>Collecting and Analysing Data</u> : Find quartiles and IQR from discrete and stem and leaf diagrams; find the mean given two other means
	<u>Lines and Angles</u> : Circle theorems; Alternate segment theorem
	<u>Number Patterns and Sequences</u> : Fibonacci and geometric sequences; find nth term of complex and quadratic sequences
Intermediate Sets	<u>Place Value and Numerical Methods</u> : Divide a whole number or decimal by a decimal; understand effect of multiplying and dividing by number from 0 to 1; estimation by rounding; order of operations involving roots
	<u>Lines and Angles</u> : Introduction to bearings; proof that angles in a triangle sum to 180; interior and exterior angles in polygons; multistep angle problems in polygons
	<u>Expressions, Equations and Formula</u> : Solve equations involving fractions; linear inequalities; factorise expressions; expand double brackets
	<u>Powers and Roots</u> : Apply positive powers to fractions; use index laws
	<u>Fractions</u> : Divide an integer by a fraction; calculations with mixed numbers
	<u>Collecting and Analysing Data</u> : Discrete and continuous data; averages from grouped data; averages from stem and leaf diagram
	<u>Factors, Multiples and Primes</u> : Find HCF and LCM of two or more numbers; worded problems on HCF and LCM
	<u>Properties of 2D Shapes</u> : Recognise similar shapes and scale factor; calculate unknown lengths of similar shapes; congruent triangles
Foundation Sets	<u>Place Value and Numerical Methods</u> : Round whole numbers and decimals to significant figures; truncating; written method to multiply/divide whole numbers and decimals; simple inequalities; order of operations
	<u>Lines and Angles</u> : Understanding of geometric notation and correct mathematical definitions. E.g. angle AOB, line CD; apply angle properties of triangles and quadrilaterals; corresponding, alternate and co-interior angles
	<u>Powers and Roots</u> : Index notation for powers; indices rules
	<u>Expressions, Equations and Formula</u> : Solve equations involving brackets and unknowns on both sides; rearrange formula
	<u>Fractions</u> : Write quantity as a fraction of another quantity; four operations of fractions with different denominators and mixed numbers
	<u>Collecting and Analysing Data</u> : Averages of discrete data; frequency tables; compare frequency distributions.
	<u>Factors, Multiples and Primes</u> : Prime factor of a number; HCF and LCM using prime factors
	<u>Properties of 2D Shapes</u> : Solve problems on shape properties; understand congruent shapes

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Year 9 English

Across these units of study, students will develop:

Accuracy in spelling and in using Standard English grammar in writing and appropriate spoken contexts.
An increasing range of ambitious and complex vocabulary.
Accuracy and variety of punctuation and sentence demarcation.
Creative writing of non-fiction and fiction text types and conscious crafting of writing: planning, drafting, editing, amending; applying knowledge of language, grammar, structure, literary/rhetorical devices to own writing.
Communicating clearly, effectively and imaginatively in speech, selecting and adapting tone, style and register for different forms, purposes and audiences.
Organisation of information and ideas, using structural and grammatical features to support coherence and cohesion in own texts.

Macbeth – William Shakespeare

Cultural capital: cultural and social context – Shakespeare’s world, the Jacobean world view and the chain of being, gender and kingship.
Exploring the relationship between the play and its context- the response of different audiences.
Plot/dramatic elements/tragedy.
Characterisation of Macbeth, Lady Macbeth, Banquo; Shakespeare’s language and poetry/use of metaphor and structural features.
Relevant subject terminology to form and genre: soliloquy, verse, blank verse, tragedy and tragic flaw.
Annotation of the text and key scenes. Creative writing in role.
Using evidence from the text, focussed quotations, subject terminology and reference to context in discussion, written summary and analysis.

Assessment: GCSE Literature Paper 1 Section A Shakespeare

Descriptive Writing and Review Writing- The Others

Students will study a range of descriptive writing examples.
Use of literary devices used in description: voice, structure, figurative language, rhetorical/sentence level features, phonological devices.
Development of complexity of sentence structures to include rhetorical features, pre and post-modification of noun phrases, other modifiers and subordinate adverbial/prepositional structures.
Development of cohesive devices: dehis, discourse markers and pronouns.
Creative descriptive writing – conscious crafting of writing, drafting, amending, improving, editing and self-evaluation.
Assessment: GCSE English Language Paper 1 Q5 - Descriptive Writing. ‘The Others’ – a still image from the film is used.
Studying film reviews and writing a film review of ‘The Others’: the grammatical/ lexical features of film reviews include tense, person, neologism and intertextual reference.

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Year 9 Science

Cell Biology

- Cell Structure
- Cell Division
- Transport in Cells

Atomic Structure and the Periodic Table

- A simple model of the atom, symbols, relative atomic mass, electronic charge and isotopes
- The periodic table
- Properties of transition metals

Energy

- Energy changes in a system, and the ways energy is stored before and after such changes
- Conservation and dissipation of energy
- National and global energy resources

Please be aware students may study these units in a different order than listed.

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History

The First World War, Peace Settlement, and the Inter-War Years

In this topic students will learn about the factors that led to the Great War, life during the war (both at home and on the frontlines), key events like the Battle of the Somme, and the way the the war has been portrayed today. Students will continue to be able to develop their skills of analysis and evaluation when dealing with sources from the era.

Geography

Plate Tectonics

In this topic students will be learning about earthquakes and volcanoes – how they are formed, managed and the impact they have on communities.

Wasteful World

Modern waste is an ever increasing problem, and so students will look at how it is managed and the impact our waste has on the environment.

PRE

Religion, Crime and Punishment

In this topic students will learn about different crimes and the reasons people might commit them. They will explore the nature and aims of punishment – including corporal and capital punishment. Finally, they will explore the issue of forgiveness. They will see how Christians and Muslims apply their beliefs to the issue. Throughout, students will evaluate the different views within the topic.

Year 9 Curriculum Plans – Autumn Term 2020

French

Listening, speaking, reading and writing skills in French covering the following:

- Talking about social media
- Giving your opinion about someone
- Arranging to go out
- Describing a date
- Describing a music event
- Revision of regular –er verbs
- Direct object pronouns, adjective agreement
- Near future tense
- the perfect tense with *avoir/être*
- Using 3 tenses

German

Listening, speaking, reading and writing skills in German covering the following:

- Talking about role models
- Talking about experiences/ what you have done in your life
- Parts of the body
- Overcoming misfortune
- How a role model influences you
- Revise present tense and *weil*
- Using perfect tense
- Past tense revision and injuries
- Future tense

Design & Technology - Annual Curriculum

		Food	Graphics	RM	Textiles	Innovation
Year 9 - DT	Recap Health and safety in the workshop/kitchen	Street Food Project <ul style="list-style-type: none"> • Proteins and alternatives • Safe preparation • Micro organisms • Gluten formation • Egg cookery • Ethical, animal welfare, environment, health • Impact of food production - eggs Practical Dishes <ul style="list-style-type: none"> • Sausage rolls • Vegetarian curry • Spring rolls • Chicken noodle soup • Koftas • Cup cakes • Baked flat bread 	File Box Project <ul style="list-style-type: none"> • Design Eras • Specification • Design ideas • Corrugated card • Drawing and making nets • 2D and 3D drawing • Vinyl cutting • Lithographic printing • Die cutting • CAD/CAM – 2D design 	Candle Holder Project <ul style="list-style-type: none"> • Designing for a user • Metals • 2D and 3D drawing • Design modelling • Working with metals & wood • Hand tools • Pillar drill, disc sander, scroll saw • Metal finishes • Working to tolerance 	E Key Ring Project <ul style="list-style-type: none"> • E Textiles • Conductive thread • Electronics • Design ideas • Design modelling • Hand sewing • Making patterns • Advances in modern technology materials 	Computer Aided Design Software <ul style="list-style-type: none"> • 2D design • Tinker CAD • Microbit programming • Computer generated 2D and 3D drawing
		<p>All students in KS3 study DT via a carousel with 5 subject areas that rotate approximately every 14 lessons throughout the school year. All projects combine practical skills and theoretical knowledge. Each project has an assessed practical piece and a theory test.</p>				

Art - Annual Curriculum

		One-Point Perspective	Portraits	Food	Jasper Johns
Year 9 - Art		Concertina work <ul style="list-style-type: none"> • One-Point perspective shapes adding tone • One-Point perspective words using colour blending • Artist transcription • Collage of architecture - composition and scale Final Piece <ul style="list-style-type: none"> • Worms eye view using pen and ink Homework <ul style="list-style-type: none"> • One-Point perspective tutorial • Artist research 	Concertina work <ul style="list-style-type: none"> • Typography title page • Artist inspired watercolour portrait • Artist analysis and research • Portrait collage – overlapping and layering Final piece <ul style="list-style-type: none"> • Grid method portrait, drawing from collage. • Tone, colour pencil, fine-liner Homework <ul style="list-style-type: none"> • Artist transcription • Facial feature tutorials 	Concertina work <ul style="list-style-type: none"> • Food wrapper drawings using tonal pencil • Artist transcription using mixed media • Mono-print study of food Final piece <ul style="list-style-type: none"> • Logos and food labels • Composition and layering design Homework <ul style="list-style-type: none"> • Artist research • Coca Cola can tutorial 	Concertina work <ul style="list-style-type: none"> • Abstract hand design using tonal pencil, patterns, texture and mark making • Art history and analysis • Development of final piece designs Final Piece <ul style="list-style-type: none"> • Artist inspired abstract design using oil pastels <ul style="list-style-type: none"> • Colour theory Homework <ul style="list-style-type: none"> • Artist research • Complete unfinished work
		<p>All Students in KS3 complete 4 projects a year, working in concertina sketchbooks. Each year covers a range of different mediums, techniques and skills, artists and cultures. Building on techniques and skills each time they are covered in a different theme.</p>			

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Music

Students will study two of the following three topics:

Dance Remix - Students will learn various music production techniques including layering, looping, quantizing, automation and stutter, and will create their own remix of a popular song using authentic samples.

Keyboard Skills - Students will develop their keyboard skills using innovative video tutorials to learn to play a variety of different pieces from several different genres.

Cover Versions - Using a variety of different instruments including keyboard, guitar, ukulele, bass, drums and voice, students will learn to create and perform a live performance of a pop song.

Drama

LORD OF THE FLIES

Exploring themes, character and status through text.

GENRES OF COMEDY

Devising in specific styles of comedy, communication, characterisation.

***Key Stage Three
Drama showcase***

10 December 2020