

# St Martin's School

## Curriculum Maps 2020/2021



Year 7 – Autumn Term  
Curriculum Plans

# Year 7 Curriculum Plans – Autumn Term 2020

## Year 7 Mathematics

### **Higher Sets**

- **Place Value and Numerical Methods:** Round to a given number of significant figures; Truncating numbers; Multiply and divide whole numbers and decimals; Simple inequalities
- **Properties of Number:** Order of Operations (including squares and cubes)
- **Lines and Angles:** Angle properties of triangles and quadrilaterals; Recognise and solve corresponding angles, alternate angles, co-interior angles
- **Powers and Roots:** Use index notation for integer powers; Use simple rules of indices applied to positive and negative numbers; Use the terms square, positive and negative square root, cube and cube root
- **Expressions, Equations and Formula:** Solve equations involving brackets; Solve equations with unknown on both sides; Rearrange simple formula
- **Fractions:** Write a quantity as a fraction of another quantity; Add, subtract, multiply divide fractions with different denominators and simple mixed numbers; Applications of fractions
- **Collecting & Analysing Data:** Find the mode, mean, median and range for any set of discrete data; solve more complex problems relating to these averages; Record discrete data using a frequency table; Calculate mode, mean, median and range from a frequency table; Compare and comment on two frequency distributions
- **Factors, Multiples and Primes:** Find the prime factor of a number and express as a product of prime factors using index notation; Find HCF and LCM using prime factors
- **Properties of Shape (2D):** Solve problems based on shape properties (e.g. Missing angles, missing lengths); Understand that congruent shapes have the same lengths and angles

### **Intermediate Sets**

- **Place Value and Numerical Methods:** Round whole numbers to the nearest 10, 100, 1000 and to 1 significant figure; Round to the nearest whole number and 1 or 2 decimal places; Multiply & divide decimal numbers by 10, 100 and 1000; Multiply & divide whole numbers & decimals
- **Directed Numbers:** Order, add and subtract negative numbers in context; Multiply and Divide with negative numbers; Add, subtract, multiply and divide negative numbers in context
- **Lines and Angles:** Understand parallel & perpendicular lines; Solve problems involving angles at a point, angles on a straight line, vertically opposite angles
- **Powers and Roots:** Square numbers, square roots (up to 12); Cube numbers, cube roots (up to 10); Use index notation for whole numbers (including squaring and cubing)
- **Expressions, Equations and Formula:** Solve 1 - 3 step equations; Write simple formulas/equations/expressions algebraically; Rearrange simple formula; Substitution of positive and negative integers; Expand single brackets
- **Fractions:** Order fractions; Write a quantity as a fraction of another quantity; Multiply/divide fractions (understand reciprocal); Add/subtract fractions (different denominators)
- **Collecting & Analysing Data:** Find the mode, mean, median and range for any set of discrete data; Compare two distributions using the range and one average
- **Factors, Multiples and Primes:** Find LCM and HCF of two or more numbers by listing; Problem solving e.g. train times; Sorting numbers into Venn diagrams (multiples / primes etc.)

### **Foundation Sets**

- **Place Value and Numerical Methods:** Read and write numbers in figures and words; Round to the nearest 10, 100 and 1000; Secure written methods for whole number addition and subtraction; Use understanding of place value to multiply and divide by 10, 100 and 1000; Secure written methods for whole number multiplication and division
- **Directed Numbers:** Order positive/negative numbers on a number line; Add/subtract negative integers; Add/subtract negative numbers in context (e.g. Temperature)
- **Lines and Angles:** Recognise and estimate the three types of angle; Measure and construct an angle to the nearest degree; Eight points of a compass
- **Powers and Roots:** Recall the square numbers up to  $12 \times 12$ ; Practice methods of multiplication to calculate squares and cubes; Efficient use of a calculator to find squares and roots
- **Expressions, Equations and Formula:** Expressions and equations; Simplify expressions; Use simple formulas written in words; Substitute positive numbers into a simple formula
- **Fractions:** Find equivalent fractions; Order fractions with the same denominator; Simplify Fractions; Add and subtract fractions with the same denominator; Change an improper fraction to a mixed number; Change a mixed number to an improper fraction; Find a fraction of a whole
- **Factors, Multiples and Primes:** Understand definition of multiple, factor and prime factors. Find multiples of a number; Find a factor pair of a number; List common multiples; Test to see if a number is prime

# Year 7 Curriculum Plans – Autumn Term 2020

## Year 7 English

### Across these units of study, students will develop:

Accuracy in spelling and Standard English grammar.

Accuracy and variety of punctuation including different forms of sentence demarcation, colon, semi-colon, apostrophe and parenthesis.

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.

Spoken language skills: discussion, debate, asking questions, reading texts aloud with expression and clarity.

#### Novel

Band 1 and 2 – Treasure Island by RL Stevenson

Band 3, 4 and 5 – The Black Book of Secrets by F Higgins

Band 5 and 6 – Skellig by D Almond

- Explore plot, setting, characterisation and central themes including wider moral and social issues and how these are developed in longer texts.
- Learn grammatical and literary terminology regarding narrative and descriptive writing. Refer to evidence in a text and use quotation.
- Using writing to explore the text.
- Assessment: Analysing a short extract from the novel

#### Poetry

- Read challenging and engaging material to develop understanding of poetry from different times and cultural contexts including Shakespeare, Chaucer, Bronte, Heaney and Blake. Refer to evidence in a text and use quotation.
- Learn the subject terminology of poetry regarding sound, structure and figurative language.
- Writing to describe.

#### The Tempest – William Shakespeare

- Cultural capital: the political, cultural and social context of Shakespeare's world, exploring wider moral and social issues.
- Learn dramatic terminology and explore Shakespeare's use of language in creating character and drama. Refer to evidence in a text and use quotation.
- Writing in role, writing to describe, writing to persuade.
- Assessment: Descriptive writing based on an image

#### PPE Preparation (Fiction)

- Reading: Question 1 – comprehension skills and inference; Question 2 – analysing language and effects; Question 3 – analysing the structure of a text and effects; Question 4 – analysing language and structure to support a statement. Refer to evidence in a text and use quotation.
- Writing to describe based on an image.
- Assessment: AQA Reading and Writing PPE

#### 19th Century Texts

- Cultural capital: the Victorian/ 19<sup>th</sup> century world, exploring wider moral and social issues.
- Read challenging and varied 19<sup>th</sup> century texts including HG Wells, C Doyle, WW Jacobs and C Dickens.
- Developing use of complex vocabulary and subject terminology relevant to narrative forms. Refer to evidence in a text and use quotation.
- Writing to describe/narrate/ inform; write a newspaper article.
- Assessment: Analysis of a short extract from the novel 'Great Expectations'

#### Year 7 Prospectus (writing for a real audience)

- Explore a range of non-fiction texts: review, correspondence, newspaper article/opinion.
- Writing to argue, persuade, advise and instruct using appropriate lexical, grammatical and structural devices; developing the range of sentence types in writing.
- Learn new vocabulary and subject terminology relevant to writing non-fiction.
- Assessment: Writing for a real audience: write a persuasive/ informative letter to a local primary school about St Martin's School

#### Travel Writing

- Explore a range of fiction and non-fiction texts on the theme of travel and develop understanding of writers' methods. Refer to evidence in a text and use quotation in analysis of shorter texts.
- Writing to describe, writing to persuade using appropriate lexical, grammatical and structural devices.
- Develop complexity of sentence structures, noun phrases and range of sentence types in writing.

# Year 7 Curriculum Plans – Autumn Term 2020

## Year 7 Science

### **Safety in the laboratory**

- Safety rules in a laboratory
- Scientific skills
- Practical science investigation skills

### **Cells and the Body**

- Cells, tissues and organs
- Muscles, the skeleton, exercise and drugs

### **Particle Model and Separating Mixtures**

- Solid, liquids and gases
- Movement of particles
- Separating mixtures techniques

### **Energy and Electricity**

- Energy types and energy resources
- Energy transfers
- Electricity and types of circuits
- Simple circuit components

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

# Year 7 Curriculum Plans – Autumn Term 2020

## History

### What is History

Students will learn about chronology and bias, and then conduct an investigation into the Tollund Man. These lessons bring together a range of History skills – including using sources as evidence.

### The Romans

We have a lot to be thankful for that the Romans did for us. Students will explore how Roman society was organised, what life was like for the Romans, and how it collapsed. Assessments will allow students to develop their evaluation and source skills.

## Geography

### What is Geography? Map Skills

In this topic students will explore the crucial map skills required – including using 4 figure, and 6 figure, map references.

### Global Issues

The world has a lot of issues, so students will explore some of the key and pressing issues faced today. These include poverty, hunger, energy use and plastic pollution.

## PRE

### What is a Person?

Students will begin developing their philosophical enquiry skills by considering questions such as, "what makes you you?" and "what is the meaning of life?".

### "There is enough evidence to prove that God exists"

Students will explore different philosophical and religious arguments surrounding the existence of God. They will develop their evaluation skills by assessing the evidence available.

# Year 7 Curriculum Plans – Autumn Term 2020

## French

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

- Greetings and introductions
- The French alphabet – how to spell your name
- The numbers 1-30. How old are you?
- Birthdays – days of the week and months of the year
- Items in your pencil case
- Colours and basic adjective positioning and agreement
- Animals and family members using avoir
- Talking about likes and dislikes
- Your survival kit
- Describing yourself using a range of adjectives
- Talking about other people
- Describing a musician

## German

- Listening, speaking, reading and writing skills in German covering the following:
- Greetings and introductions
- To pronounce German words
- Say the Alphabet
- Say where you live
- Describe your Character
- Answering questions about your belongings
- Using mein and dein (my and your)
- Haben (to have) and indefinite article (a)
- Favourite things
- Pets
- Pronouns
- Superpets
- Modal verb and infinitive
- Age and family members
- Present tense verbs
- Describing family members
- Colours
- Adjectives with nouns
- Birthdays
- Ordinal numbers

# Design & Technology - Annual Curriculum

		Food	Graphics	RM	Textiles	Innovation
<b>Year 7 - DT</b>	General Health & safety in the workshop/kitchen	<b><u>Breakfast Project</u></b> <ul style="list-style-type: none"> <li>• Safety of foods</li> <li>• Enzymic browning</li> <li>• Healthy breakfasts</li> <li>• Food Provenance</li> </ul> <b><u>Practical Dishes</u></b> <ul style="list-style-type: none"> <li>• Cooker License</li> <li>• Sandwich</li> <li>• Fruit Fusion</li> <li>• Dippy Divers</li> <li>• Apple crumble</li> <li>• Potato wedges</li> <li>• Frittata</li> </ul>	<b><u>Chocolate box Project</u></b> <ul style="list-style-type: none"> <li>• Product analysis</li> <li>• Specification</li> <li>• Design Ideas</li> <li>• 2D and 3D drawing</li> <li>• Making card nets</li> <li>• Wood and plastics</li> <li>• Scroll saw, pillar drill</li> <li>• Vacuum forming</li> <li>• Working to tolerance.</li> </ul>	<b><u>Visibadge Project</u></b> <ul style="list-style-type: none"> <li>• Basic Electronics</li> <li>• Energy storage</li> <li>• Plastics</li> <li>• Soldering</li> <li>• Strip heating</li> <li>• Production Diary</li> <li>• Working to tolerance.</li> </ul>	<b><u>Monsters Project</u></b> <ul style="list-style-type: none"> <li>• Natural Fibres</li> <li>• Product Analysis</li> <li>• Safe use equipment</li> <li>• Design ideas</li> <li>• Hand sewing skills</li> <li>• Working to tolerance.</li> </ul>	<b><u>IT</u></b> <ul style="list-style-type: none"> <li>• Basic IT skills</li> <li>• Programming - Small Basic</li> </ul>
		<p>All students in KS3 study DT via a carousel with 5 subject areas that rotate approximately every 14 lessons throughout the school year.</p> <p>All projects combine practical skills and theoretical knowledge. Each project has an assessed practical piece and a theory test.</p>				

# Art - Annual Curriculum

		Still Life	Portraits	Creative Cakes	Insects
<b>Year 7 - Art</b>		<b><u>Concertina work</u></b> <ul style="list-style-type: none"> <li>• Understanding tone and colour theory</li> <li>• Brush control</li> <li>• Composition and page layout</li> <li>• Researching and taking inspiration from Artists</li> </ul> <b><u>Final Piece</u></b> <ul style="list-style-type: none"> <li>• Design inspired by Artist</li> <li>• Watercolour, colour pencil and fine-liner</li> </ul> <b><u>Homework</u></b> <ul style="list-style-type: none"> <li>• Hot and Cold colours</li> <li>• Artist transcription</li> </ul>	<b><u>Concertina work</u></b> <ul style="list-style-type: none"> <li>• Facial features</li> <li>• Face proportions</li> <li>• Adding tone</li> <li>• Researching and taking inspiration from Artists</li> <li>• Art History and analysis</li> </ul> <b><u>Final Piece</u></b> <ul style="list-style-type: none"> <li>• Abstract design using poster paint and pen outlines</li> <li>• Brush control, colour theory, colour blending</li> </ul> <b><u>Homework</u></b> <ul style="list-style-type: none"> <li>• Half portrait drawing</li> <li>• Artist research.</li> </ul>	<b><u>Concertina work</u></b> <ul style="list-style-type: none"> <li>• Line drawing and adding tone</li> <li>• Viewfinder of food packaging using colour pencil</li> <li>• Lollipop using watercolour and fine-liner pen</li> <li>• Final piece designs</li> </ul> <b><u>Final Piece</u></b> <ul style="list-style-type: none"> <li>• Cardboard relief construction</li> <li>• Poster paint to complete</li> </ul> <b><u>Homework</u></b> <ul style="list-style-type: none"> <li>• Extended project 3-D food sculpture</li> </ul>	<b><u>Concertina work</u></b> <ul style="list-style-type: none"> <li>• Collage images</li> <li>• Insect drawings using colour pencil and biro pen</li> <li>• Mark making and tone</li> <li>• Leaf printing</li> <li>• Final piece design</li> </ul> <b><u>Final Piece</u></b> <ul style="list-style-type: none"> <li>• Watercolour paint on fabric</li> <li>• Blending and watercolour wash techniques</li> <li>• Embellish design</li> </ul> <b><u>Homework</u></b> <ul style="list-style-type: none"> <li>• Artist transcription</li> <li>• Collecting leaves and images</li> </ul>
		<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>			

# Year 7 Curriculum Plans – Autumn Term 2020

## Music

Year 7 students will start their Music lessons at St Martin's learning about the elements of music and how music is put together. They will learn how to read music and how to identify different types of notes and the notes of the treble and bass clef. They will gradually be introduced to performing music by singing as a class and playing a simple piece on the keyboard.

After the October half term, students will continue developing their performance skills by learning to compose and perform a Waltz, through developing their knowledge of playing chords. Their final project will be learning to sing and play the chords of a popular song on the keyboard.

As a side project, this term all students will learn to sing two pop songs as a class, with the aim of performing them both as part of a mass Year 7 Chorus in the Christmas Concert.

## Drama

### ***HALF TERM ONE***

#### **NORTHWOOD HALL**

Characterisation, creating tension and suspense.

### ***HALF TERM TWO***

#### **STORYTELLING AND PANTO**

Narration, vocal skills, exaggeration, breaking the 4<sup>th</sup> wall.

### ***KEY STAGE THREE SHOWCASE***

Thursday, 10<sup>th</sup> December 2020