



St Mary's
Colchester

Year 6

Curriculum Booklet



Introduction

This booklet is a guide to your daughter's current academic year, giving you an overview of the content of our curriculum at St. Mary's. Our curriculum has been devised to interest and engage your daughter, with the intention to help realise her potential. As with all the best teaching, it may be liable to changes as we respond to the questions, interests and particular needs of the girls, but it will give you a broad idea of the year ahead.

If you have any questions please speak with your daughter's class teacher or Mrs Zoe Wentworth, Assistant Director of Lower School (Academic).



Year 6 Yearly Overview for English

(Your daughter will be assessed against the following criteria)

Reading	Writing
<ul style="list-style-type: none">• Applies a growing knowledge of root words, prefixes and suffixes (morphology and etymology) - as listed in English appendix 1 of the national curriculum document - both to read aloud and to understand the meaning of new words that are met.• Increases familiarity with a wide range of books, including myths, legends and traditional stories, modern fiction, fiction from our literary heritage, and books from other cultures and traditions.• Checks that the book makes sense to the reader, discussing the individual's understanding and exploring the meaning of words in context.• Summarises the main ideas drawn from more than one paragraph, identifying key details that support the main ideas.• Retrieves, records and presents information from non-fiction.• Participates in discussions about books that are read to the individual and those that can be read independently.• Provides reasoned justifications for their views about a book.	<p>Composition</p> <ul style="list-style-type: none">• Identifies the audience for, and purpose of, the writing.• Selects the appropriate form and uses other similar writing as models for their own.• Proof-reads for spelling and punctuation errors.• Ensures the consistent and correct use of tense throughout a piece of writing.• Uses further organisational and presentational devices to structure text and to guide the reader (e.g. headings, bullet points, underlining).• Can describe settings, characters and atmosphere. <p>SPaG</p> <ul style="list-style-type: none">• Uses dictionaries to check the spelling and meaning of words.• Can understand and apply the difference between vocabulary typical of informal speech and vocabulary appropriate for formal speech and writing (eg find out - discover; ask for - request; go in - enter).• Uses the passive voice to affect the presentation of information in a sentence (eg 'I broke the window in the greenhouse' versus 'The window in the greenhouse was broken (by me)').• Can use layout devices, such as headings, sub-headings, columns, bullets, or tables, to structure text.• Uses the colon to introduce a list.• Punctuates bullet points to list information.



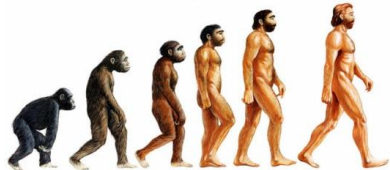
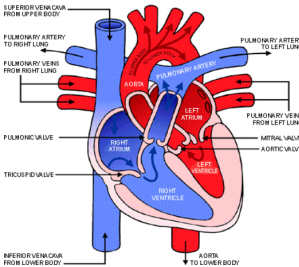
Year 6 Yearly Overview for Mathematics

(Your daughter will be assessed against the following criteria)

<p>Place value</p> <ul style="list-style-type: none"> • Rounds any whole number to a required degree of accuracy. • Uses negative numbers in context and calculates intervals across zero. <p>Calculation</p> <ul style="list-style-type: none"> • Multiplies multi-digit numbers up to four digits by a two-digit whole number using the formal written method of long multiplication. • Divides numbers up to four digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context. • Solves addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. • Uses estimation to check answers to calculations and determines, in the context of a problem, an appropriate degree of accuracy. <p>Fractions</p> <ul style="list-style-type: none"> • Uses written division methods in cases where the answer has up to two decimal places. • Solves problems which require answers to be rounded to specified degrees of accuracy. • Recalls and uses equivalences between simple fractions, decimals and percentages, including in different contexts. <p>Ratio and proportion</p> <ul style="list-style-type: none"> • Solves problems involving the calculation of percentages e.g. of measures and calculations such as 15 per cent of 360, and the use of percentages for comparison. 	<p>Measurement</p> <ul style="list-style-type: none"> • Uses, reads, writes and converts between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places. <p>Geometry</p> <ul style="list-style-type: none"> • Compares and classifies geometric shapes based on their properties and sizes and finds unknown angles in any triangles, quadrilaterals and regular polygons. • Position and direction. • Draws and translates simple shapes on the coordinate plane and reflects them in the axes. <p>Statistics</p> <ul style="list-style-type: none"> • Calculates and interprets the mean as an average. <p>Algebra</p> <ul style="list-style-type: none"> • Interprets pie charts and line graphs and uses these to solve problems. • Use simple formulae. • Generate and describe linear number sequences. • Express missing number problems algebraically. • Find pairs of numbers that ? on equation with two unknown.

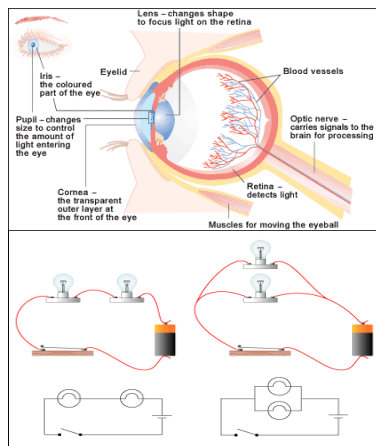


Year 6 - Science

Topic / Area of study	Description	The skills the girls will develop through these topics
<p>Living things and their habitats.</p> <p>Evolution and inheritance .</p> 	<p>The girls will be introduced to the idea that characteristics are passed from parents to their offspring, for instance by considering different breeds of dogs, and what happens when, for example, Labradors are crossed with Poodles. They will also look at genetics and inheritance in their own families. We will discover how variation in offspring over time can make animals more or less able to survive in particular environments; adaptation to survive in extreme environments will link to our studies in History on the Polar Regions. We will consider how adaptation may lead to evolution. We will also explore how fossils can provide information about living things that inhabited the Earth millions of years ago. Our studies will include finding out about the work of palaeontologists such as Mary Anning and about how Charles Darwin and Alfred Wallace developed their ideas on evolution.</p>	<p>Plan enquiries, including recognising and controlling variables where necessary.</p> <p>Use appropriate techniques, apparatus, and materials during fieldwork and laboratory work.</p> <p>Take measurements, using a range of scientific equipment, with increasing accuracy and precision.</p> <p>Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, bar and line graphs, and models.</p>
<p>Animals including Humans</p> 	<p>The girls will share their prior understanding of the human body by locating the major organs on a skeleton. We will explore the functions of the main organs through diagrams, investigations, models and video clips. We will learn to identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. We will also learn to identify and name the main parts of the human respiratory system, and describe the process. The girls will explore lung capacity through practical experiments. Through research, we will learn about the importance of diet, exercise, drugs and lifestyle on the way the human body functions; the girls will create leaflets to teach others what they have found out.</p>	<p>Report findings from enquiries, including oral and written explanations of results, explanations involving causal relationships, and conclusions.</p> <p>Present findings in written form, displays and other presentations.</p> <p>Use test results to make predictions to set up further comparative and fair tests.</p> <p>Use simple models to describe scientific ideas, identifying scientific evidence that has been used to support or refute ideas or arguments.</p>



Light & Electricity



The girls will investigate the idea that light travels in straight lines, along with reflected and refracted light, through practical experiments. They will be able to use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them, and to predict the size of shadows when the position of the light source changes – shadow investigations will be carried out in small groups. We will move on to a study of the human eye, using video material and diagrams to support understanding. The girls will learn that we see things because light travels from light sources to our eyes, or from light sources to objects and then to our eyes. We will also explore the fact that white light is made of many colours.

The girls will explore and learn to build electrical circuits. They will be able to associate the brightness of a lamp, or the volume of a buzzer, with the number and voltage of cells used in the circuit. They will compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches. The girls will be taught how to recognise and use symbols when representing a simple circuit in a diagram. The topic will culminate with a Design and Technology project where the girls will make their own electrical circuit games.



Living Things & their Habitats



Building on their learning, the girls will look at the classification system in more detail. They will be introduced to the idea that broad groupings, such as micro-organisms, plants and animals can be subdivided. Through direct observations where possible, they will classify animals into commonly found invertebrates and vertebrates and will discuss reasons why living things are placed in one group and not another. As part of the work on micro-organisms, they will explore Scientific research into Germ Theory, by looking at the work of Louis Pasteur and Edward Jenner and understand the main characteristics of different microbes.





Year 6 - History

Topic / Area of study	Description	The skills the girls will develop through these topics
<p>Suffragettes and Parliament</p> 	<p>The girls will learn about social and political change for women from 1903 to 1979 (social reform and the Suffragettes). We will consider the broader social and political development of votes for women from the early suffrage movement to the first woman taking her seat in Parliament in 1919. We will look at Government, Parliament, and Laws today – recognising that there are different forms of government, the importance that rules and laws play, along with the role of Parliament, local MPs, and different political parties. Throughout our studies, we will use a range of historical sources – images, animations and videos, articles, and web links.</p>	<p>To investigate and interpret the past by using sources of evidence to deduce information. To understanding that no single source of evidence gives the full answer to questions about the past</p> <p>To communicate historically by using appropriate historical vocabulary to communicate and by using literacy and computing skills to communicate information about the past</p> <p>To understand chronology by describing the main changes in a period of history</p>
<p>WW2</p> 	<p>The girls will explore the events that led up to the outbreak of World War Two. We will look at how the war changed the course of history, and the effect it had on Britons lives. The girls will compare this period with life today, looking at culture, economy, and politics. Using their historical enquiry skills, the girls will investigate the history of World War 2 through a range of historical sources – images, animations and videos, articles, and web links.</p>	<p>To share their knowledge and understanding of past events by describing and making links between events, and changes across periods. As they communicate, they will use dates and historical vocabulary to describe the period</p> <p>To use historical enquiry skills as they use (and question) a variety of sources to find out about events, people and changes</p>



Year 6 - Geography

Topic / Area of study	Description	The skills the girls will develop through this topic
North America 	<p>This unit explores the physical and human features of the continent of North America, securing children's locational knowledge and developing their place knowledge. Children will build on their knowledge of earthquakes from Year 4 when they find out about the San Andreas fault line. They will study a current geographical challenge - wildfires in California.</p>	<p>Understand key aspects of physical geography, including: climate zones, biomes and vegetation belts, rivers, mountains, volcanoes and earthquakes, and the water cycle.</p> <p>Identify geographical similarities and differences through the study of human and physical geography of a region of the United Kingdom, a region in a European country, and a region within North or South America.</p> <p>Understand key aspects of human geography, including: types of settlement and land use, economic activity including trade links, and the distribution of natural resources including energy, food, minerals and water.</p> <p>Describe geographical diversity across the world.</p> <p>Describe how countries and geographical regions are interconnected and interdependent.</p> <p>Describe how locations around the world are changing and explain some of the reasons for change.</p>
The Amazon Rainforest 	<p>This unit builds on the knowledge gained from the biomes unit in Year 3. This unit revisits biomes and focuses on the Amazon Rainforest, a tropical forest biome. Children will develop locational knowledge and will understand that due to its size and location, South America is a diverse continent with equatorial regions and regions with proximity to the Antarctic circle.</p>	



Year 6 – Additional Subjects

RE

Topics to be covered:

- Christianity – The Last Week of Jesus Life
- Humanism – Living as a Humanist
- Buddhism – Living as a Buddhist

PSHEE/Philosophy

Topics to be covered:

- Keeping/ Staying Safe
- Keeping/Staying Healthy, Growing and Changing
- Being Responsible
- Feelings and Emotions
- Computer Safety
- The Working World
- A World without Judgement
- First Aid

Computer Science

Topics to be covered:

- Networks
- Graphing
- Blogging
- Spreadsheets
- Data Detectives
- 3D Modelling
- Coding
- Micro:bit (as a computing themed day)
- Introduction to Python
- Binary (as a computing themed day)



Languages
The focus within French will be speaking and listening, which will be applied in a range of conversational and role-play situations. Other strands which will enrich this are reading and writing. The girls will also develop an awareness of the cultural aspects within French speaking provinces. Topics which will be studied include physical descriptions, French Alphabet, School descriptions and places, restaurants, and food.
Design and Technology
The girls will use textiles to design and make a banner related to their history topic. The girls will complete a STEM Lego project applying problem solving, critical thinking and spatial reasoning through hands-on building and design. They will work as a team to experiment with various solutions developing logical thinking. They will then make and evaluate their product.
Art and Design
The girls will be encouraged to produce creative work, exploring their own ideas. Their work will cover drawing, painting, textiles, and sculpture. The girls will explore people in action using a range of sketching materials – including charcoal and graphite pencils. At all stages, the girls will be taught to develop their techniques, including their control. They will learn about great artists, architects, and designers.
Music
<ul style="list-style-type: none">• The girls will continue to develop performance and composition skills and build on their musical knowledge• To sing and/or play with confidence and with expression• To understand the use of the sharp and the flat symbols• To develop their understanding of musical notation and a widening vocabulary in order to appraise music
PE
<ul style="list-style-type: none">• Uphold the spirit of fair play and respect in all competitive situations• Play competitive games, modified where appropriate• To develop gross and fine motor skills in the relevant activity• To use and apply these skills with growing accuracy and consistency within competitive situations• To demonstrate a good kinaesthetic awareness, holding shapes and moving with fluency and expression• Swim fluently with controlled strokes• Sports to include netball, hockey, athletics, cricket, gymnastics, dance and fitness.



Forest School

Your daughter will have opportunities to develop her skills and knowledge in the following areas: Tool use, Ropes and Knots, Fires, Dens and Shelters, Tree climbing and Flora and Fauna. Personal, Social and Emotional Development is a constant feature throughout all of the sessions as the girls experience supported risk taking, physical challenges, working as part of a group, problem solving, choice, opportunities for reflection, solitude and discussion of feelings and emotions to promote self-awareness, social awareness and positive mental health.

- Use a knife to whittle green wood
- Select tools suitable for a task
- Select wood suitable for a task
- Choose an appropriate knot to tie up a hammock
- Use knowledge of knots to put up a zip-wire
- Choose and use appropriate knots for the task (den-building, rope swing, rope walk
- Light a fire independently in different ways
- Keep the fire alight and fed with fuel
- Plan, prepare and cook a meal on an open fire
- Adapt and improve shelter building techniques
- Use knots learnt to tie parts of shelter
- Attempt to build a shelter off the ground
- Challenge themselves with more difficult climbing challenges
- Talk about the checks and risk assessments they have carried out before starting a task.
- Identify hawthorn, elder, oak, lime, hazel, willow, holly and ivy
- Identify Lords and Ladies
- Notice how different types of flora provide habitats for different animals and birds
- Carry out a Bio-Blitz of FS area (list of living things)
- Have opportunities to talk about how they are feeling
- Experience different relaxation and mindfulness techniques
- Recognise and celebrate their successes
- Work together as part of a group
- Take time to enjoy solitude and the natural environment
- Undertake opportunities to improve or look after the Forest School area



À rayures À pois	Striped dots	A quelle heure finit le/la ...?	At what time does (subject) finish? Dining room Library Class Classroom Toilets Kindergarten Playground I am in the ...	De la viande rouge Du lait entier Du pain blanc Du chocolat Du beurre Des bonbons Des chips Des frites Des boissons sucrées Des biscuits Bon pour la santé Mauvais pour la santé Je joue au foot Je fais des promenades Je fais de la natation Je fais du cyclisme Je fais du judo Je fais du tennis Je joue au tennis Je ne regarde pas La télé Je ne joue pas aux jeux électroniques	Some fruit Some nuts Some red meat Some full fat milk Some white bread Some chocolate Some butter Some sweets Some crisps Some chips Some sugary drinks Some biscuits Good for (your) health Bad for (your) health I play football I go for walks I go swimming I go cycling I do judo I do tennis J play tennis I don't watch TV I don't play electronic games.	Un sandwich au poulet Un sandwich au thon Un sandwich aux tomates Une glace au chocolat Une glace à l'orange Une glace à la fraise Une glace à la vanille Une pomme Une poire Une pêche Une banane Une orange Un citron Des raisins Un melon Un kiwi Des fraises Un ananas Les tomates Le thon Le fromage	Chicken sandwich Tuna sandwich Tomato sandwich Chocolate ice cream Orange ice cream Strawberry ice cream Vanilla ice cream Apple Pear Peach Banana Orange Lemon Grapes Melon Kiwi Strawberries Pineapple Tomatoes Tuna Cheese
Je voudrais ... C'est combien? Je peux l'essayer? Ça coûte... Je m'appelle .. J'habite à ... Mon anniversaire est le ... J'aime Je n'aime pas J'ai les yeux ... J'ai les cheveux et	I would like ... How much is it? Can I try it on? It costs.. I am called ... I live in ... My birthday is on ... I like I don't like My eyes are ... (colour) My hair is and (colour and length) I am – Big Small Chatty Shy Funny Kind	La cantine La bibliothèque La classe La salle de classe Les toilettes La maternelle La cour Je suis dans le/la .. Bienvenue dans mon école. Mon école est/ vieille/ moderne. Il y aprofesseurs Il y asalles de classe J'aime mon école parce que... C'est bien équipé Les professeurs sont sympa.	Wellcome to my School. My School is.. Old/modern There is/areteachers There areclassrooms I like my school because.. It's well equipped. The teachers are nice.				
Joyeux Noël!	Happy Christmas!						



						Une baguette Le beurre Les gâteaux Les fruits Les bonbons Les pommes Les carottes Les haricots	Baguette Butter Cakes Fruits Sweets Apples Carrots Beans
						Mangez Coupez Prenez Mettez	Eat Cut Take Put
						Bonjour je m'appelle J'ai ... ans J'ai... frère et... sœur. J'habite à... J'habite dans une maison/ un appartement En ville Dans un village Je suis grande/petite J'ai les yeux.. J'ai les cheveux.. J'aime porter... A l'école ma matière préférée c'est... Parce que ... C'est cool	Hello , my name is.. I am... years old I have .. brother and ... sisters I live in.. I live in a house/flat In town In a village I am Tall /short My eyes are.. My hair is.. I like wearing.. At School my favourite subject is.. Because.. It's cool



						<p>C'est amusant C'est facile Pour ma santé je mange/ je bois.. Je fais du... Je joue au...</p>	<p>It's fun It's easy For my health I eat/drink.. I do.. I play..</p>
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