

Year 6 Curriculum Description 2021/22

Autumn 1	Science	<p><b>Animals including Humans</b> We will be identifying and naming the main parts of the human circulatory system, and describing the functions of the heart, blood vessels and blood. We will explore the impact of diet, exercise, drugs and lifestyle on the way human bodies function. We will also be learning about the ways in which nutrients and water are transported within animals, including humans</p>		<p><b>English</b> <b>The Year 6 Story Tellers</b> We will be learning how authors adapt their language, style and structure for different audiences before performing a story to KS1 children.</p> <p><b>Informal Email</b> Using the story children perform as a stimulus, we will be writing an informal email in role.</p> <p><b>Biographies</b> We will be exploring the lives of inspirational people from Malala Yousafzai to Marcus Rashford as well as sharing our own autobiographical childhood memories.</p> <p><b>Descriptive Writing</b> We will be discovering Lewis Carroll's nonsense poem 'Jabberwocky' to inspire us to write our own piece of descriptive writing.</p> <p><b>Maths</b> <b>Number and Place Value</b> We will be ordering and comparing numbers up to 10 000 000 and determining the value of each digit. We will be rounding any whole number to a required degree of accuracy.</p> <p><b>Addition and Subtraction</b> We will be adding and subtracting numbers using the written method and mentally with increasingly large numbers.</p> <p><b>Multiplication and Division</b> We will be multiplying numbers up to 4 digits by a 2-digit whole number using the formal written methods. We will also be dividing numbers up to 4 digit by 2 digit by using the long division written method.</p> <p><b>Problem Solving &amp; Reasoning</b> We will be solving a range of number and practical problems that involve all of the above.</p>
	History & Geography	<p><b>Early Islamic Civilisations</b> We will be looking at the Islamic civilisation from CE 900 with a focus on how Baghdad was a centre for knowledge, wealth and peace. We will also be learning about latitude, longitude and comparing Islamic civilisations with those in western Europe at the time.</p>		
	Computing	<p><b>E-Safety</b> We will be discussing the many ways it is possible to communicate online with those you do and don't know in real life. We will be using Plotagon to animate a scene giving advice to someone with an e-safety dilemma.</p>		
	RE	<p><b>Islam</b> We will be learning about the key beliefs of Islam along with places of worship, holy books and identifying similarities and differences between Islamic and Christian worship.</p>		
	Art	<p><b>Islamic Art</b> We will be looking at examples of Islamic geometric patterns before trying our own on clay tiles.</p>		
	PSHE	<p><b>Healthy Lifestyles</b> We will learn about how the choices we make can influence our physical and mental health and wellbeing.</p>		
	Indoor PE	<p><b>Dance - Emotions</b> We will be exploring how music and dance can convey contrasting emotions in group performances.</p> <p><b>Gymnastics – Hand Apparatus</b> We will be focussing on balance when using a range of hand apparatus.</p>	Outdoor PE	

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Autumn 2	Science	<p><b>Evolution and Inheritance</b></p> <p>We will think about characteristics passed from one generation to the next and how species have adapted to suit their environments. We will discover the process of natural selection, and how our understanding of the process of evolution has developed over time thanks to the work of scientists and palaeontologists.</p>		<p><b>English</b></p> <p><b>Sci-Fi Story Opening</b></p> <p>We will be reading <i>Robot Girl</i> by Malorie Blackman and then writing our own story opening inspired by themes commonly found in science fiction.</p>
	History & Geography	<p><b>Early Islamic Civilisations</b></p> <p>We will be looking at the Islamic civilisation from CE 900 with a focus on how Baghdad was a centre for knowledge, wealth and peace. We will also be learning about latitude, longitude and comparing Islamic civilisations with those in western Europe at the time.</p>		<p><b>Journalistic Writing</b></p> <p>We will be using an advert for <i>The Guardian</i> newspaper as inspiration for our own news articles. Along the way, we will be exploring journalistic writing by identifying viewpoint and bias.</p>
	Computing / Music	<p><b>GarageBand Compositions</b></p> <p>We will be using GarageBand to explore rhythm, texture and melody before making our own compositions.</p>		<p><b>Free Verse Poetry</b></p> <p>We will be exploring the themes found in <i>Overheard in a Tower Block</i> by Joseph Coelho before writing our own poems as we think about what is 'Overheard in St James'</p>
	RE	<p><b>What is God like?</b></p> <p>We will use bible stories to understand the nature and characteristics of God. We will seek to understand the meaning of belief in art, prayer and poetry and reflect on what that means to us personally.</p> <p><b>Advent:</b> We will be describing the symbolism, practices, beliefs and themes of the season of Advent. We will then consider what the message of John the Baptist would be today.</p>		<p><b>Maths</b></p> <p><b>Number: Division</b></p> <p>We will be consolidating our knowledge of formal methods of long division before applying these in real world problem solving scenarios.</p> <p><b>Fractions</b></p> <p>We will be recapping the fraction knowledge we have learnt in Key Stage 2 before moving on to multiplying and dividing fractions.</p>
	DT	<p><b>Fairground Rides</b></p> <p>We will be researching the history of fairground rides before designing, making and evaluating our own rides that incorporate rotating parts.</p>		<p><b>Geometry: Position &amp; Direction</b></p> <p>We will be reading and writing coordinates in all four quadrants before translating and reflecting shapes.</p>
	PSHE	<p><b>Living in the Wider World</b></p> <p>We will be exploring the role of the media in our lives today as well as learning about managing money and discussing our aspirations for future careers.</p>		<p><b>Problem Solving &amp; Reasoning</b></p> <p>We will be solving a range of number and practical problems that involve all of the above.</p>
	PE	<p><b>Tag Rugby</b></p> <p>We will be learning passing, catching and intercepting skills before using them in competitive games.</p>	<p><b>Circuit Training</b></p> <p>We will be learning a range of aerobic exercises and discussing the importance of regular exercise.</p>	<p><b>Dance</b></p> <p>We will be developing our group compositions based around the theme of 'fear'.</p>

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Spring 1	Science	<p><b>Electricity</b> Building on their work in year 4, we will be constructing simple series circuits, to help answer questions about what happens when different components, for example, switches, bulbs, buzzers and motors are added. We will also learn how to represent a simple circuit in a diagram using recognised symbols.</p>		<p><b>English</b></p> <p><b>Instructions</b> We will be reading <i>The Strange Case of Origami Yoda</i> by Tom Angleberger and then writing our own detailed instructions on how to make an origami Yoda.</p> <p><b>Balanced Argument</b> We will be learning about Sadako Sasaki and Hiroshima Peace Day before writing a balanced argument for and against nuclear weapons.</p> <p><b>Free Verse Poetry</b> We will be exploring the themes found in <i>Overheard in a Tower Block</i> by Joseph Coelho before writing our own poems as we think about what is 'Overheard in St James'</p>
	History & Geography	<p><b>Japan</b> We will be answering the enquiry question 'How has the physical landscape impacted Japan throughout history?'</p>		
	Computing	<p><b>Scratch: Memory Game</b> We will be creating a memory game in which a random sequence of colours will needed to be memorised and repeated. This will involve adding sound, creating and using lists to store data and creating and using custom blocks for repeating code.</p>		
	Music	<p><b>You've Got a Friend</b> Using music by Carole King as the stimulus. We will be listening and appraising music before exploring different musical activities with instruments and voices before performing and sharing our work.</p>		
	RE	<p><b>Life is a Journey</b> We will examine how our lives can be seen as a Journey, map out our own life as a journey and research religious pilgrimages.</p>		
	PSHE	<p><b>Mental &amp; Emotional Health</b> We will be learning how to challenge negative thoughts and feelings as well as how to resist and challenge discriminations and stereotyping.</p>		
	PE	<p><b>Cricket</b> We will be learning the basic rules of cricket and developing a range of skills to use in isolation and in a competitive context including striking a bowled ball.</p>	<p><b>Fitness Skills</b> We will be building on our circuit training topic by learning a range of exercises that we can be completed solo or in pairs.</p>	
				<p><b>Maths</b></p> <p><b>Number: Decimals</b> We will be consolidating our knowledge of decimals in previous years before dividing and multiplying decimals up to 3dp.</p> <p><b>Number: Percentages</b> We will be finding and ordering equivalent fractions, decimals and percentages before finding percentages of amounts.</p> <p><b>Number: Algebra</b> We will first look at forming expressions before moving on to solving more complex equations.</p>

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Spring 2	Science	<b>Living Things and Their Habitats</b> Building on their work in year 4, we will be describing how living things are classified into broad groups including micro-organisms, plants and animals. We will also give reasons for classifying plants and animals based on specific characteristics.		<b>English</b>  <b>Formal Email</b> We will be reading <i>Grimm Tales for Young and Old</i> by Philip Pullman and then writing a formal email in role as a character from one of the traditional tales.  <b>Grimm Tales</b> After reading a selection of tales from the Brothers Grimm, we will be writing our own fairy tales.
	History & Geography	<b>Japan</b> We will be answering the enquiry question 'How has the physical landscape impacted Japan throughout history?'		
	Computing	<b>Scratch: Dodge Ball</b> We will be using if, then, else blocks within Scratch to create a platform game in which the player has to dodge moving balls to reach the end of the level.		
	Music	<b>Garage Band Compositions</b> We will be coming to the end of our Garage Band topic and uploading our finished arrangements onto Sound Cloud.		<b>Maths</b>  <b>Measurement: Converting Units</b> We will read, write and recognise all metric measures for length, mass and capacity before learning rules of how to convert between some of them and learning about imperial measures.  <b>Measurement: Perimeter, Area &amp; Volume</b> We will build on prior knowledge of area and perimeter to explore the area of a triangles and parallelograms before moving on to finding volume of 3D objects.  <b>Number: Ratio</b> We will be learning that a ratio shows the relationship between two values and can describe how one is related to another.  <b>Statistics</b> We will be interpreting and drawing pie charts before learning how to work out the mean average.
	RE	<b>Easter: Sacrifice</b> We will be discussing why Easter is so important to Christians and exploring the meaning of sacrifice and forgiveness.		
	PSHE	<b>Keeping Safe</b> We will be learning about legal and illegal drugs, the effects of peer pressure before learning some basic first aid.		
	PE	<b>Hockey</b> We will be learning the basic rules of hockey and practising and applying passing, shooting and defending skills.	<b>Gym: Rolls</b> We practising and perfecting a range of different rolls in isolation and in sequences.	

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Summer 1	Science	<p><b>Living Things and Their Habitats</b> Building on their work in year 4, we will be describing how living things are classified into broad groups including micro-organisms, plants and animals. We will also give reasons for classifying plants and animals based on specific characteristics.</p>		<p><b>English</b></p> <p><b>Suspense Story Opening</b> We will be reading <i>Room 13</i> by Robert Swindells and then writing our own spooky story opening filled with suspense.</p> <p><b>Non-Chronological Report</b> Using the setting of Room 13 as inspiration, we will be writing fact files about characters from folklore and Whitby Abbey.</p> <p><b>SATs revision and preparation</b> We will be discussing strategies and techniques to help us with SATs reading, grammar and punctuation papers.</p>
	History & Geography	<p><b>Suffragettes</b> We will be learning about the role Manchester played in the women's suffrage movement. We will focus on significant suffragettes and suffragists and how women finally won the vote.</p>		
	Computing	<p><b>Scratch: Dodge Ball</b> We will be using if, then, else blocks within Scratch to create a platform game in which the player has to dodge moving balls to reach the end of the level.</p> <p><b>Touch Typing</b> We will be learning a range of techniques to increase their speed and accuracy when typing.</p>		
	Music	<p><b>Music and Me</b> We will be trying out different ways of making music with and without instruments, while exploring the work of some of the most influential women in music over the last 100 years</p>		<p><b>Maths</b></p> <p><b>SATs revision and preparation</b></p> <ul style="list-style-type: none"> <li>• Naming Circles: Radius, Diameter and Circumference.</li> <li>• Interpreting Pie Charts.</li> <li>• Calculating the mean.</li> <li>• Drawing 2-D shapes using given dimensions and angles.</li> <li>• Recognising, describing and building simple 3-D shapes, including making nets.</li> <li>• Comparing and classifying geometric shapes based on their properties and sizes and finding unknown angles in triangles, quadrilaterals, and regular polygons.</li> <li>• Recognising angles where they meet at a point, on straight lines, or vertically opposite, and finding missing angles.</li> <li>• Number Puzzles, Reasoning and Problem Solving.</li> </ul>
	RE	<p><b>People of Faith</b> We will be studying and describing the characteristics of people of faith. We will look at bible stories and explain how the stories reveal what it means to have faith. We will research the lives of influential people of faith and look at issues that might affect our faith such as natural disasters.</p>		
	DT	<p><b>Seasonal Cookery</b> We will learning about how seasons may affect the food available before using a range of techniques such a peeling and cutting to prepare our own seasonal dish.</p>		
PE	<p><b>Football</b> We will be completing a range of drills to improve passing, dribbling and shooting skills before applying these in competitive scenarios.</p>	<p><b>Gym: Coach</b> Children how to improve their agility, balance and control on and off apparatus.</p>		

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Summer 2	Science	<p><b>Light</b> We will be learning to recognise that light appears to travel in straight lines and using that idea to explain that objects are seen because they give out or reflect light into the eye. We will also be looking a range of phenomena including rainbows, colours on soap bubbles, objects looking bent in water, and coloured filters.</p> <p><b>Growing Up</b> We will be learning and the changes that occur to our bodies as we grow up and about how our personal hygiene routines develop and change as we get older.</p>		<p><b>English</b></p> <p><b>Persuasive Advert</b> We will be looking at how adverts both inform and persuade before writing one for our Enterprise Day stall.</p> <p><b>Robin Hood –</b> We will be using the end of year performance as a stimulus for a range of writing outcomes including:</p> <ul style="list-style-type: none"> <li>- News article</li> <li>- Non Chronological report</li> <li>- Character description</li> <li>- Poetry</li> </ul>
	History & Geography	<p><b>Suffragettes</b> We will be learning about the role Manchester played in the women’s suffrage movement. We will focus on significant suffragettes and suffragists and how women finally won the vote.</p>		
	Computing	<p><b>Scratch: Video Game</b> We will be using all prior knowledge of scratch to plan and create a video game featuring a main character, at least one evil character, items to collect and items to avoid and a scoring mechanism.</p>		
	Music	<p><b>Music and Me</b> We will be trying out different ways of making music with and without instruments, while exploring the work of some of the most influential women in music over the last 100 years</p>		
	RE	<p><b>What difference does it make to believe in Ahimsa, Grace or Ummah?</b> We will be discussing and drawing links between the three concepts found in Hinduism, Christianity and Islam.</p>		<p><b>Maths</b></p> <p><b>Investigations</b></p> <ul style="list-style-type: none"> <li>● Profit and Loss (Enterprise Day)</li> <li>● Budgeting and debt.</li> <li>● Problem solving and calculator skills – begin to use the memory functions.</li> <li>● Measuring ourselves and what’s around us.</li> <li>● History of maths.</li> <li>● Maths in art and nature. Tessellate 2-D shapes.</li> <li>● Key Stage 3 taster sessions.</li> </ul>
	PSHE	<p><b>Transition to High School</b> Children will reflect on their time at St James and prepare for transition to their new schools. We will focus on some of the most common worries (finding your way around, making friends and bullying). This will also incorporate Philosophy for Children sessions.</p> <p><b>Relationships</b> We will be discussing the meaning of friendship before looking at marriages and forced marriages.</p>		
	DT	<p><b>Seasonal Cookery</b> We will learning about how seasons may affect the food available before using a range of techniques such a peeling and cutting to prepare our own seasonal dish.</p>		
	PE	<p><b>Rounders</b> We will be developing striking and fielding skills by completing a range of drills before applying these in a games.</p>	<p><b>Dance: Robin Hood</b> We will be learning and practising a range of routines in preparation for the end of year performance.</p>	

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