

Somers Park Primary School
Curriculum Map 2016- 2017



Year 5	Autumn		Spring		Summer	
School events	Swimming (Weekly)	Christmas Decorations (2 nd December) Christmas Service (14 th December)	Swimming (Weekly) Trip to Bristol Science museum (19 th January) Digital citizenship pledge as part of Internet Safety Day 7 th February, 2017.	Skipping fundraising challenge	Summer assessments Y4/5 Steel pans and violins performance	Sports day Wheely wheely sponsorship event Bikeability KS2 school trek up the Malverns
English	<ul style="list-style-type: none"> • Setting description- Using 'The Giant's Necklace' by Michael Morpurgo • Police and Newspaper reports- Using 'The Giant's Necklace' by Michael Morpurgo. • Diary entry- Using UFO sighting information. • Slam poetry- Using 'When I grow up' by Wilf • Eyewitness recount - Using UFO sighting information. • Blogging • Formal letter writing- Using 'War Horse' by Michael Morpurgo • Character analysis and description – Using 'War Horse' by Michael Morpurgo 		<ul style="list-style-type: none"> • Trip recount • Persuasive speech. • Character Viewpoint - • Character description • Story writing • Instructional writing • Information texts 		<ul style="list-style-type: none"> • Persuasive letter • Story writing • Information texts • Film review • Personal recounts 	
Ongoing- Reading (word level and comprehension) Writing (transcription, handwriting, composition, vocabulary, grammar and punctuation) Spoken Language						
Maths	<ul style="list-style-type: none"> • Count forwards or backwards in steps of powers of 10 for any given number up to 1000, 000 • Read, write, order and compare numbers to at least 1 000 000 including the first 3 decimal places. • Round any number up to 1 000 000 to the nearest 10, 100, 1000 and up to 2 decimal places. • Read, order and compare numbers up to 3 decimal places. 		<ul style="list-style-type: none"> • Interpret negative numbers in context, count forwards or backwards through zero. • Measure and calculate the perimeter of rectangular shapes and find unknown lengths. • Calculate and compare the area of rectangles using this to find lengths using standard units. • Calculate area from scale drawings. 		<ul style="list-style-type: none"> • Recognise mixed numbers and improper fractions and convert them. • Read and write decimal numbers as fractions. • Add and subtract fractions with the same denominator that are multiples of the same number. • Compare and order fractions where denominators are multiples of the same number. 	

	<ul style="list-style-type: none"> • Solve addition and subtraction problems in contexts with two step word problems. • Use rounding to check answers in context and check accuracy of a calculation. • Add and subtract whole numbers of 4 and more digits using formal methods. • Add and subtract increasingly large numbers mentally using an understanding of place value. • Identify multiples and factors, including finding all factor pairs. • Multiply numbers up to 4 digits using formal written methods. • Multiply and divide numbers mentally using known facts and mental arithmetic strategies. • Multiply and divide whole numbers and decimals by 10, 100 and 1000. • Identify 3D shapes, including cubes and other cuboids from 2D representations • Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. • Divide numbers up to 4 digits by one digit using formal methods. • Express remainders in different ways. • Convert between different units of metric measure. • Read, write and convert time to 24hr format. • Solve problems involving time differences. 	<ul style="list-style-type: none"> • Know that angles are measured in degrees: estimate and compare obtuse, acute and reflex angles. • Draw angles and measure them in degrees. • Use properties of angles and rectangles to find related facts. • Solve problems involving the calculation of percentages. • Know that the angles in a triangle sum up to 180 and use this to find missing angles. • Identify angles of turn. • Calculate missing co-ordinates. 	<ul style="list-style-type: none"> • Multiply proper fractions and mixed numbers by whole numbers supported by materials and diagrams. • Recognise and use the % symbol
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Ongoing- Number and Place Value

<p>Science</p>	<p>Working Scientifically</p> <ul style="list-style-type: none"> • Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary • Taking measurements, using a range of scientific equipment, with increasing accuracy and precision • Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, and bar and line graphs • Using test results to make predictions to set up further comparative and fair tests 	<p>Working Scientifically</p> <ul style="list-style-type: none"> • Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary • Taking measurements, using a range of scientific equipment, with increasing accuracy and precision • Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, and bar and line graphs • Using test results to make predictions to set up further comparative and fair tests 	<p>Working Scientifically</p> <ul style="list-style-type: none"> • Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary • Taking measurements, using a range of scientific equipment, with increasing accuracy and precision • Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, and bar and line graphs • Using test results to make predictions to set up further comparative and fair tests
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	<ul style="list-style-type: none"> • Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of results, in oral and written forms such as displays and other presentations • Identifying scientific evidence that has been used to support or refute ideas or arguments <p>Plant Life and Animal Life Cycles:</p> <ul style="list-style-type: none"> • Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird • Describe the life process of reproduction in some plants and animals • Draw, label and describe the parts and functions of a plant. • Identify the parts of a flower and recognize that flowers have male and female organs. • Write a description of the process of pollination and recognize how plants reproduce. • Write a report about the different ways that seeds can be dispersed. • Plan, carry out and evaluate a seed dispersal experiment. • Explain the process of germination and plan an experiment. • Plot and explain the human lifecycle on a timeline. • Plot and analyse data from graphs to explain how babies grow. • Understand the changes that occur during puberty. 	<ul style="list-style-type: none"> • Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of results, in oral and written forms such as displays and other presentations • Identifying scientific evidence that has been used to support or refute ideas or arguments <p>Earth and Space:</p> <ul style="list-style-type: none"> • Describe the movement of the Earth, and other planets, relative to the Sun in the solar system • Describe the movement of the Moon relative to the Earth • Describe the Sun, Earth and Moon as approximately spherical bodies • Use the idea of the Earth's rotation to explain day and night, and the apparent movement of the sun across the sky <p>Forces</p> <ul style="list-style-type: none"> • Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object • Identify the effects of air resistance, water resistance and friction, that act between moving surfaces. • Recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect 	<ul style="list-style-type: none"> • Reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of results, in oral and written forms such as displays and other presentations • Identifying scientific evidence that has been used to support or refute ideas or arguments <p>Materials</p> <ul style="list-style-type: none"> • Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets • Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution • Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating • Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic • Demonstrate that dissolving, mixing and changes of state are reversible changes • Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.
Computing	<ul style="list-style-type: none"> • Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact by: <ul style="list-style-type: none"> ○ Learning how to recognize and deal with spam and pop-up/push media on the internet. 	<ul style="list-style-type: none"> • Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact <ul style="list-style-type: none"> ○ How to cite a site ○ Digital citizenship pledge and signing of AUP 	<ul style="list-style-type: none"> • Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact <ul style="list-style-type: none"> ○ Importance of having strong passwords ○ Understanding how images can be digitally altered

	<ul style="list-style-type: none"> ○ Understanding that the internet is a network of networks and explore how it works. ○ Understanding how data is circulated around the web using packets of information. ○ Learning how to create secure passwords in order to protect their private information and accounts online ○ Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. ● Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. This will be achieved through regular research activities and use of blogging across History, English and RE. ● Design, write and debug programs that accomplish specific goals, solve problems by decomposing them into smaller parts to design a game using Scratch or HTML. ● Use sequence, selection, and repetition in programs; work with variables and various forms of input and output by designing a game using Scratch or HTML. 	<ul style="list-style-type: none"> ● Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information. This will be achieved through regular research activities and use of blogging across Science, English and Geography. ● Design, write and debug programs that accomplish specific goals, solve problems by decomposing them into smaller parts to design an algorithm to calculate the area of shapes and a game using Scratch. ● Use sequence, selection, and repetition in programs; work with variables and various forms of input and output by designing a game using Scratch or HTML to design an algorithm to calculate the area of shapes and a game using Scratch. 	<ul style="list-style-type: none"> ● Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information across Science. ● Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.
Humanities	<p>Anglo-Saxons and Vikings</p> <ul style="list-style-type: none"> ● Research and understand who the Saxons were initially before invading Britain and plot key dates on a time-line. ● Analyse the Saxons rationale for invading Britain ● Identify and research Anglo-Saxon settlements and place-names. ● Identify and research Anglo-Saxon laws and justice. ● Research facts about the Viking invasion of Britain and plot events on a timeline. ● Understand the importance of Danegeld. 	<p>Vikings and Anglo-Saxons:</p> <ul style="list-style-type: none"> ● Research how the Vikings lived and their effect on Britain. ● Research and understand Anglo-Saxon resistance and interaction with the Vikings until the Battle of Hastings (AD 1066). 	<p>Geography: Carry out research into Eastern Europe with a specific focus on Russia including:</p> <ul style="list-style-type: none"> ● Physical geography: Year 5 children will research, describe and understand the key aspects of Russia's physical geography including: identifying different climate zones and research average precipitation, temperatures, over 12 months and then use excel to create bar charts and graphs to interpret information with; children will also research the four key biomes of Russia identifying vegetation and wildlife in the Tundra, Taiga (boreal forest),the Steppes

	<ul style="list-style-type: none"> Understand the importance of Viking weapons and design a Viking shield. 		<p>and Mixed Forest area; major rivers and mountains of Russia.</p> <ul style="list-style-type: none"> Human geography: They will also research, describe and understand the key aspects of Russian settlement and land use; its core economic activity and trade links; and the distribution of natural resources including energy, food, minerals and water.
RE	<p>Sikhism:</p> <ul style="list-style-type: none"> Research Sikhism and find out how they show respect to god. Recognize the importance of pilgrimage and why Sikhs go on pilgrimage to the Golden Temple. Explore the pros and cons of arranged marriages in Sikhism. Understand the importance of the 5Ks of Sikhism as a code of conduct for their faith. Assess children's understanding of the values of Sikhism by developing a PP which explains what is important to Sikhs and why they put so much effort into it. <p>The Christmas Story:</p> <ul style="list-style-type: none"> Understand the importance of the Christmas story to Christians around the world. Learn how Christians show their respect to God. 	<p>Hinduism</p> <ul style="list-style-type: none"> Learning about the Hindu faith and the importance of pilgrimage to Varanasi and the River Ganges. Learn to understand how Hindus show their commitment to God and to evaluate if there is a best way. 	<p>The Maya</p> <ul style="list-style-type: none"> Learn about who the Maya were. Research and identify the key cities and regions that the Maya populated in Mesoamerica. Research, discuss and understand the Maya gods and the Maya religion. Examine Chichen Itza as a means to better understand Maya cities and how it linked to their understanding of astronomy.
PE	<p>Swimming</p> <ul style="list-style-type: none"> Swim competently, confidently and proficiently over a distance of at least 25 metres Use a range of strokes effectively Perform safe self-rescue in different water-based situation. <p>Sport and Games</p> <ul style="list-style-type: none"> Develop flexibility, strength, technique, control and balance 	<p>Swimming</p> <ul style="list-style-type: none"> Swim competently, confidently and proficiently over a distance of at least 25 metres Use a range of strokes effectively Perform safe self-rescue in different water-based situation. <p>Sport and Games</p> <ul style="list-style-type: none"> Perform dances using a range of movement patterns 	<p>Sport and Games</p> <ul style="list-style-type: none"> Take part in outdoor and adventurous activity challenges both individually and within a team Compare their performances with previous ones and demonstrate improvement to achieve their personal best. Use running, jumping, throwing and catching in isolation and in combination

	<ul style="list-style-type: none"> Take part in outdoor and adventurous activity challenges both individually and within a team. 	<ul style="list-style-type: none"> Take part in outdoor and adventurous activity challenges both individually and within a team Compare their performances with previous ones and demonstrate improvement to achieve their personal best. Use running, jumping, throwing and catching in isolation and in combination Play competitive games, modified where appropriate, and apply basic principles suitable for attacking and defending 	<ul style="list-style-type: none"> Play competitive games, modified where appropriate, and apply basic principles suitable for attacking and defending
Art	<p>Linked to Humanities topic</p> <ul style="list-style-type: none"> Create sketch books to record their observations and use them to review and revisit ideas Improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials Learn about great artists, architects and designers in history. 	<p>Linked to Humanities topic</p> <ul style="list-style-type: none"> Create sketch books to record their observations and use them to review and revisit ideas Improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials Learn about great artists, architects and designers in history. 	<p>Linked to Humanities topic</p> <ul style="list-style-type: none"> Create sketch books to record their observations and use them to review and revisit ideas Improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials Learn about great artists, architects and designers in history.
DT	<p>Design, Make and Evaluate</p> <ul style="list-style-type: none"> Understand how key events and individuals in design and technology have helped shape the world Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities <p>Linked to Humanities topic:</p> <ul style="list-style-type: none"> Designing Viking shields Design Christmas decorations and ornaments. 		<p>Cooking and Nutrition Linking to languages (French and Swahili):</p> <ul style="list-style-type: none"> Understand and apply the principles of a healthy and varied diet by looking at healthy ingredients that are used to cook traditional French and Tanzanian meals Cook a repertoire of predominantly savoury dishes so that they are able to feed themselves and others a healthy and varied diet by planning and cooking a variety of healthy French and Tanzanian food Understand the source, seasonality and characteristics of a broad range of ingredients by researching when and where specific types of French and Tanzanian ingredients are grown. <p>Design, Make and Evaluate</p>

			<ul style="list-style-type: none"> • Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design by creating an imaginary healthy French or Tanzanian fast food product whereby packaging is researched and designed • Investigate and analyse a range of existing healthy option fast food products and packaging to help inform design • Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work • Understand and use electrical systems in their products • Apply their understanding of computing to programme, monitor and control their products.
Music	<p>Worcestershire music service: (Violins, Steel Pans and Ensemble)</p> <ul style="list-style-type: none"> • Play and perform in solo and ensemble contexts, using their voices and playing musical instruments with increasing accuracy, fluency, control and expression • Improvise and compose music for a range of purposes using the interrelated dimensions of music • Listen with attention to detail and recall sounds with increasing aural memory • Use and understand staff and other musical notations • Appreciate and understand a wide range of high-quality live and recorded music drawn from different traditions and from great composers and musicians • Develop an understanding of the history of music. 	<p>Worcestershire music service: (Violins, Steel Pans and Ensemble)</p> <ul style="list-style-type: none"> • Play and perform in solo and ensemble contexts, using their voices and playing musical instruments with increasing accuracy, fluency, control and expression • Improvise and compose music for a range of purposes using the interrelated dimensions of music • Listen with attention to detail and recall sounds with increasing aural memory • Use and understand staff and other musical notations • Appreciate and understand a wide range of high-quality live and recorded music drawn from different traditions and from great composers and musicians • Develop an understanding of the history of music. 	<p>Worcestershire music service: (Violins, Steel Pans and Ensemble)</p> <ul style="list-style-type: none"> • Play and perform in solo and ensemble contexts, using their voices and playing musical instruments with increasing accuracy, fluency, control and expression • Improvise and compose music for a range of purposes using the interrelated dimensions of music • Listen with attention to detail and recall sounds with increasing aural memory • Use and understand staff and other musical notations • Appreciate and understand a wide range of high-quality live and recorded music drawn from different traditions and from great composers and musicians • Develop an understanding of the history of music.

PSHE	<ul style="list-style-type: none"> • Personal goals and planning • Democracy and Citizenship. 	<ul style="list-style-type: none"> • Dreams and personal goals • Ensuring a healthy me by understanding the importance of a healthy diet and lifestyle along with good well-being. 	<ul style="list-style-type: none"> • Thinking about the importance of relationships • (Linking to the science curriculum) consider emotional and social changes that occur as children grow.
Languages		<p>French and Swahili</p> <p>Listening & Comprehension</p> <ul style="list-style-type: none"> • Listen attentively to spoken language and show understanding by joining in and responding • Explore the patterns and sounds of language through songs and rhymes and link the spelling, sound and meaning of words • Speaking • Engage in conversations; ask and answer questions; express opinions and respond to those of others; seek clarification and help* • Speak in sentences, using familiar vocabulary, phrases and basic language structures • Develop accurate pronunciation and intonation so that others understand when they are reading aloud or using familiar words and phrases • Present ideas and information orally to a range of audiences* <p>Reading & Comprehension</p> <ul style="list-style-type: none"> • Read carefully and show understanding of words, phrases and simple writing • Appreciate stories, songs, poems and rhymes in the language • Broaden their vocabulary and develop their ability to understand new words that are introduced into familiar written material, including through using a dictionary <p>Writing</p>	<p>French and Swahili</p> <p>Listening & Comprehension</p> <ul style="list-style-type: none"> • Listen attentively to spoken language and show understanding by joining in and responding • Explore the patterns and sounds of language through songs and rhymes and link the spelling, sound and meaning of words • Speaking • Engage in conversations; ask and answer questions; express opinions and respond to those of others; seek clarification and help* • Speak in sentences, using familiar vocabulary, phrases and basic language structures • Develop accurate pronunciation and intonation so that others understand when they are reading aloud or using familiar words and phrases • Present ideas and information orally to a range of audiences* <p>Reading & Comprehension</p> <ul style="list-style-type: none"> • Read carefully and show understanding of words, phrases and simple writing • Appreciate stories, songs, poems and rhymes in the language • Broaden their vocabulary and develop their ability to understand new words that are introduced into familiar written material, including through using a dictionary <p>Writing</p>

		<ul style="list-style-type: none">• Write phrases from memory, and adapt these to create new sentences, to express ideas clearly• Describe people, places, things and actions orally* and in writing• Understand basic grammar appropriate to the language being studied, including (where relevant): feminine, masculine and neuter forms and the conjugation of high-frequency verbs; key features and patterns of the language; how to apply these, for instance, to build sentences; and how these differ from or are similar to English.	<ul style="list-style-type: none">• Write phrases from memory, and adapt these to create new sentences, to express ideas clearly• Describe people, places, things and actions orally* and in writing• Understand basic grammar appropriate to the language being studied, including (where relevant): feminine, masculine and neuter forms and the conjugation of high-frequency verbs; key features and patterns of the language; how to apply these, for instance, to build sentences; and how these differ from or are similar to English.
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