

St Andrew's Southgate Half Termly Overview

Year: 5

**Term:
Spring 1**

Planned trip:

Forest School: *We will be seeking opportunities throughout the year to teach forest school skills instead of just in a half term block so that the skills are applied across the curriculum and revisited as often as possible.*

Subject	Week 1	Week 2	Week 3	Week 4	Week 5		
English	Grammar and Spellings using Y5 spellings program- Oxford Reading Tree The Dream – visual imagery	Grammar and Spellings using Y5 spellings program- Oxford Reading Tree The Dream – visual imagery	Grammar and Spellings using Y5 spellings program- Oxford Reading Tree The Unknown Forest – Story opening	Grammar and Spellings using Y5 spellings program- Oxford Reading Tree Assessment Week	Grammar and Spellings using Y5 spellings program- Oxford Reading Tree Dialogue Writing		
Maths	<p>Addition and Subtraction</p> <ul style="list-style-type: none"> Add and subtract numbers mentally with increasingly hard numbers Add and subtract whole numbers with more than 4 digits using columnar 	<p>Multiplication and Division</p> <ul style="list-style-type: none"> Multiply and divide numbers mentally drawing upon known facts. Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 Multiply numbers up 	<p>Multiplication and Division</p> <ul style="list-style-type: none"> Divide numbers up to 4 digits by a one digit number using the formal written method of short division and interpret remainders appropriately for the context. 	<p>Problem Solving, reasoning and communicating</p> <ul style="list-style-type: none"> Problem solving involving all 4 operations in context of money and time. Use all four operations to solve problems involving measure (for example, length, 	<p>Volume and capacity Conversion</p> <ul style="list-style-type: none"> Estimate volume [for example, using 1cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water] Convert between different units of 	<p>Angles</p> <ul style="list-style-type: none"> Know angles are measured in degrees: estimate and compare acute, obtuse, and reflex angles. Draw given angles, and measure them in degrees (°) Identify: 	

	<p>addition and subtraction</p> <ul style="list-style-type: none"> • Solve addition and subtraction multi-step problems in contexts, deciding which operations to use and why • Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy 	<p>to 4 digits by a one or two digit number using a formal written method including long multiplication for two digit numbers</p>	<ul style="list-style-type: none"> • Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers. • Establish whether a number up to 100 is prime and recall prime numbers up to 19. 	<p>mass, volume, money) using decimal notation, including scaling.</p>	<p>measure (to include mm/cm/m/km; g/kg; ml/l)</p> <ul style="list-style-type: none"> • Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints 	<p>Angles at a point and one whole turn (total 360°)</p> <p>Angles at a point on a straight line and ½ a turn (total 180°)</p> <ul style="list-style-type: none"> • Other multiples of 90° 	
<p>Science</p>	<p>Material Properties- prior knowledge assessment of material types and their properties – mind map and concept cartoon on Materials and their properties.</p>	<p>Keeping Cool- children to understand which materials are good insulators of cold. Can they design a suitable insulator for cold drinks?</p>	<p>Separating mixtures and understanding what mixtures are. Why are some mixtures reversible? Why are some mixtures irreversible?</p>	<p>Dissolving- how do materials dissolve into other materials? What are solutions? How can we use materials that are made of mixtures?</p>	<p>Irreversible changes- what does this mean? Where and when are these used?</p> <p>End of topic assessment on materials and their properties. Children to take</p>		

			SCIENCE WEEK-STEM assembly		a quiz on this unit of work.		
Geography/ History	<p><u>Why is California So thirsty? Vocabulary</u></p> <p>What is California like?</p>	<p><u>Why is California So thirsty? Vocabulary</u></p> <p>How has drought affected People in California?</p>	<p><u>Why is California So thirsty? Vocabulary</u></p> <p>How have people improved water supply for farming in California?</p>	<p><u>Why is California So thirsty? Vocabulary</u></p> <p>What challenges will California continue to face in the future?</p>	<p><u>Why is California So thirsty? Vocabulary</u></p> <p>End of unit Synopsis Task.</p>		
RE	<p>Week 1: How did Nanak become Sikhism's first Guru?</p>	<p>Week 2: Why is the Guru Granth Sahib important to Sikhs?</p>	<p>Week 3: How is equality shown in the langar?</p>	<p>Week 4: What does a Sikh wedding ceremony tell us about Sikh beliefs about marriage?</p>	<p>Week 5: What was Guru Arjun Dev's greatest achievement?</p>		
ICT	<p>Mars Rover</p> <p>To identify how and why data is collected from space</p> <ul style="list-style-type: none"> • I can identify a type of data which the Mars Rover may transmit back to Earth • I know the meaning of 	<p>Binary Code</p> <p>To identify how messages can be sent using binary code</p> <ul style="list-style-type: none"> • To read and calculate numbers using binary code • I can identify binary as the most basic way computers communicate 	<p>Computer Architecture</p> <ul style="list-style-type: none"> • To identify the computer architecture of the Mars Rovers • I can identify sensors • I know the difference between computer input and output 	<p>Using Binary Numbers</p> <p>To use simple operations to calculate bit patterns</p> <ul style="list-style-type: none"> • I recall how binary can be used to represent numbers up to 255 • I recognise that computers 	<p>Using Binary Text</p> <p>To represent binary as text</p> <ul style="list-style-type: none"> • I recall that binary is the main means of all data transfer • I can read binary numbers to four bits • I know that data transfer 		

	<p>'data' and 'transmit'</p> <ul style="list-style-type: none"> • I understand the challenges of transmitting data over large distances • I can give a reason why data is being collected from the Mars Rover 	<ul style="list-style-type: none"> • I know how to read binary up to eight characters • I understand each one or zero is referred to as a bit • I can calculate binary numbers, knowing each digit is worth double the one that precedes it 	<ul style="list-style-type: none"> • I can explain how the size of random access memory (RAM) affects the processing of data (CPU) 	<p>use binary mathematically, to calculate</p> <ul style="list-style-type: none"> • I can carry out binary addition (and subtraction) 	<p>needs a common language</p> <ul style="list-style-type: none"> • I can use binary to create a written message 		
PE	Gymnastics Invasion Games (Tactics)	Gymnastics Invasion Games (Tactics)	Gymnastics Invasion Games (Tactics)	Gymnastics Invasion Games (Tactics)	Gymnastics Invasion Games (Tactics)		
Music	<p>Weekly Whole Class Recorder Lessons</p> <p>Lessons will be commencing from the week beginning 15th September, for 9 weeks.</p>						
ART/DT	Design a stuffed toy, considering the main component shapes of their toy.	<p>Create an appropriate template for their stuffed toy.</p> <p>Join two pieces of fabric using a blanket stitch.</p> <p>Neatly cut out their fabric.</p>	Use blanket stitch to assemble their stuffed toy, repairing when needed.	Use appliqué or decorative stitching to decorate the front of their stuffed toy.	Identify what worked well and areas for improvement.		

REMINDERS:

PE:

Indoor PE- Gymnastics – Monday. Swimming Lessons will also take place this later this term –further details to follow.
Outdoor PE – Friday.

Ensure you have the correct kit. Trainers and school approved tracksuit/shorts and t-shirt.

HOMEWORK:

Homework will be set on a Friday and due back on a Tuesday.

Spelling homework will also be given on a Friday and the children will be tested on Tuesday.

Children are expected to read for 15-20 minutes each evening – they are welcome to choose whatever they would like to read: their school library book, anything borrowed from our book corner, or anything else from home.

Google Classroom:

If you are away from school you can still access all the activities we will be covering via the Google Classroom. Please click on the CLASSWORK section of the newsfeed and select the week where you were absent to see the learning that took place and complete at home.