Year 5 Curriculum Overview - 2024/25

Spring - Space

<u>Maths</u>

6th January- Multiplication and Division

- Multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers
- Continue to use the distributive law to partition numbers when multiplying them
- Divide numbers up to 4 digits by a one-digit number using formal written method of short division and interpret remainders appropriately for the context
- Check answers to calculations and to multiplication and division calculations using the inverse

20th January - Fractions

- Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths
- Compare and order fractions whose denominators are all multiples of the same number
- Add and subtract fractions with the same denominator and denominators that are multiples of the same number, including calculations > 1
- Recognise mixed numbers and improper fractions and convert from one form to the other
- Write mathematical statements > 1 as a mixed number
- Continue to apply their knowledge of multiplication table facts to find equivalent fractions
- Write percentages as a fraction with denominator hundred, and as a decimal
- Know percentage and decimal equivalents of 1/2, 1/4, 1/6, 1/6, 1/6 and those with a denominator of a multiple of 10 or 25
- Solve problems which require knowing key percentage and decimal equivalents
- Recognise the per cent symbol and understand that per cent relates to "number of parts per hundred"
- Compare and order fractions whose denominators are all multiples of the same number

24th February - Decimals and Percentages

- Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
- Read and write decimal numbers as fractions
- Relate thousandths to decimal equivalents
- Round decimals with two decimal places to the nearest whole number and to one decimal place
- Read, write, order and compare numbers with up to three decimal places
- Recognise the per cent symbol and understand that per cent relates to "number of parts per hundred"
- Write percentages as a fraction with denominator hundred, and as a decimal
- Know percentage and decimal equivalents of 1/2, 1/4, 1/6, 1/6, 1/6 and those with a denominator of a multiple of 10 or 25
- Solve problems which require knowing key percentage and decimal equivalents



<u>17th March - Properties of Shapes (Angles and Polygons)</u>

- Draw given angles, and measure them in degrees and draw shapes with sides measured to the nearest millimeter
- Use conventional markings for parallel lines and right angles
- Distinguish between regular and irregular polygons based on reasoning about equal sides and angles
- Use the term diagonal
- Identify angles at a point and one whole turn, angles at a point on a straight line and ½ a turn and other multiples of 90°
- Estimate and compare acute, obtuse and reflex angles
- Use the properties of rectangles to deduce related facts and find missing lengths and angles

31st March - Review week and assessment

• Recapping previous objectives from the term

Literacy

The Lost Thing - A character description based on a Sci-Fi creature.

The Apollo 11 Mission - A recount of the dramatic true events of a space mission.

<u>Rocket Launch</u> - A poem with a study of a range of poetic styles.

Firework Maker's Daughter - A narrative of an adventure journey based on a Philip Pullman novel.

<u>Space Buggy Instruction</u> - A set of instructions on how to construct a Moon buggy.

Computing	<u>Science</u>
 Digital Citizenship Using 'We are Internet Legends' Use technology safely, respectfully and responsibly Using social media safely HTML Coding Design, write and debug programs Use logical reasoning to explain simple algorithms Detect and correct errors in algorithms and programs 	 Space To understand the Earth, Sun and Moon are spherical To understand why we have day and night To understand how Earth orbits around the Sun and how this causes seasons The relative movements of the Earth and Moon including phases of the moon and tides Geocentric vs Heliocentric models of the Solar System Maggie Aderin Pocock/Caroline Herschel
 Lego - We - Do Designing computer programs that use a range of inputs and outputs, including controlling physical systems (e.g. using tilt and motion sensors) Designing efficient algorithms Solving problems based on Moonbase creation 	 Forces To know how scientists came to understand gravity and how it works To know how scientists came to understand gravity and how it acts in Space
<u>"Crumble" Coding</u>	Animals, including humans

 To use "Crumble" computers to control Spa DT). 	To use "Crumble" computers to control Space Buggies (linked to DT). • Understand the and into old age		ife cycle of humans and the changes from birth including puberty.			
History						
 Space Understand key terms associated with space Know the names and key differences between the planets of our Solar System Understand the historical context of the Space Race in relation to the Cold War Understand key terms associated with space exploration Understand the key events of the Space Race between the USA and USSR from 1957-1975 Know the key events of the history of space exploration and place on a timeline Know about the key figures associated with the Space Race Understand the significance of key events of unmanned space exploration between 1971 - present day Know about key British figures associated with space exploration Understand how technology helps us learn about space Know about the development of space exploration around the world (China, India, Japan, ESA) 						
Games	Art/DT		<u>PSHE</u>			
 Various ball skills related to the following invasion games: Revision and extension of basic skills used in football, netball and hockey Attacking and defending strategies PE Gymnastics Perform actions, body shapes and balances accurately and consistently to chose shapes, balances and linking movements that they can include in a sequence To create and adapt their sequences to new situations and apply their own compositional ideas to their sequences To perform counterbalances and incorporate them into their sequences To choose and apply basic compositional ideas to the sequences they create To perform movements in canon and unison 	 The Pop Art movement Key facts about An Campbell's Soup C Recognise other ar art e.g. Bridget Rile Haring and Bansky Create own pieces work (digital and so Design Tec Designing and Building a Technical drawings drawings To be able to appromaterials to create buggy 	dy Warhol and his '32 an' piece of artwork tists from this style of ey, Frank Stella, Keith of Pop Art inspired culpture) hnology <u>Space Buggy</u> and exploded opriately use tools and a working space	 Belonging to a Community Sharing resources and spending Protecting and caring for our environment Digital Resilience Understanding the media and assessing online content Understanding stereotypes in the media Money and Work to identify jobs that they might like to do in the future about the role ambition can play in achieving a future career 			

 To use changes in speed, level and direction in their work and apply their own compositional ideas to their sequences Indoor Athletics Develop techniques and ability in running for speed and distance; jumping for distance and height; different types of throws; jumping obstacles while running To apply skills learned during competitive events 			RE Hindiusm/Sanātana Dharma • Why should Hindus (Sanatanis) live a good life? Christianity • What do Christians believe about Creation?
Music Throughout the year the children will be part of a ter include: • Trumpet tuition with Surrey Arts • Learning how to play the Glockenspiels	mly rotation that will	 Asking for food Making a sandwi Opinions about fo Healthy vs Unheater Places in the tow Giving and asking Saying where yo Telling the time Easter traditions 	French ch cod althy m g for directions u're going