	AUTUMN TERM	SPRING TERM	SUMMER TERM
IPC TOPIC **Science Topic**	**MISSION TO MARS** **Space Scientists / Fascinating Forces**	**THE GREAT, THE BOLD AND THE BRAVE** **Making New Materials**	**THE EARTH AS AN ISLAND** **Living Things & Their Habitats**
ENGLISH	Text: The Lion the Witch and the Wardrobe; Romeo and Juliet Spellings: spelling strategies; verb prefixes Guided Reading: a variety of fiction and non-fiction texts supporting writing genres and topics. Handwriting: cursive joins Writing: Narrative- Story writing in an imaginary/fantasy world; Descriptive writing - Characterisation of White Witch; Setting description - Narnia; Journalistic Writing Newspaper report- R&J Fight scene; Play script Grammar & Punctuation: Relative clauses; commas to clarify meaning Spellings: plural nouns; use of a dictionary. Guided Reading: a variety of fiction and non-fiction texts.	Text: The Highwayman; Skellig Spellings: converting nouns or adjectives using suffixes; statutory spelling list; spelling strategies Guided Reading: a variety of fiction and non-fiction texts supporting writing genres and topics Handwriting: cursive joins Writing: Narrative – Mystery; Description writing- Setting and characterisation; Poetry- Classic, narrative poem; Letter Writing; Biography - Short Grammar & Punctuation: Adverbials of time; brackets, dashes, commas, hyphens	Text: Kensuke's Kingdom; Visual Literacy – The Thinking Shed It's Not a Planet, It's Our Home. Spellings: revision of prior skills Guided Reading: a variety of fiction and non-fiction texts supporting writing genres and topics Handwriting: cursive joins Writing: Diary writing/Recount; Narrative – adventure; Argument-Persuasive; Performance poetry Grammar & Punctuation: adverbs/modal verbs; brackets, dashes, commas, hyphens, ellipses

MATHS	**Place Value and Counting:** Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit. Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000. Solve number problems and practical problems that involve ordering and comparing numbers to 1 000 000, counting forwards or backwards in steps, interpreting negative numbers and rounding. Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero. **Addition and Subtraction** Add and subtract numbers mentally with increasingly large numbers. Add and subtract whole numbers with more than 4 digits, including using formal written methods. Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.	**Multiplication and Division**: Recognise and use factor pairs and commutativity in mental calculations Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. 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 to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers. 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. Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes. **Statistics** Solve comparison, sum and difference problems using information presented in a line graph. Complete, read and interpret information in tables, including timetables. **Time** Review Yr 4 time objectives.	**Fractions:** Compare and order fractions whose denominators are all multiples of the same number. Identify and name equivalent fractions of a given fraction, represented visually, including tenths and hundredths. Write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number Add and subtract fractions with the same denominator and denominators that are multiples of the same number. Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams. **Decimals:** Read and write decimal numbers as fractions Recognise and use thousandths and relate them to tenths, hundredths and 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 Solve problems involving number up to three decimal places.	**Percentages** Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal. Solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 25. **Four Operations** Review of all 4 operations. Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign. Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.	**Geometry:** Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles. Draw given angles and measure them in degrees (°). Identify angles at a point and one whole turn (total 360°). Identify angles at a point on a straight line and 1/2 a turn (total 180°). Identify other multiples of 90°. (Properties of Shape) Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed. Identify 3-D shapes, including cubes and other cuboids, from 2-D representations. Use the properties of rectangles to deduce related facts and find missing lengths and angles. Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.	**Four Operations** Review all 4 operations. Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign Use all four operations to solve problems involving measure e.g. length, mass, volume, money using decimal notation, including scaling. **Perimeter and Area** Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres. Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm^2) and square metres (m^2) and estimate the area of irregular shapes **Volume** Estimate volume e.g. using 1 cm^3 blocks to build cuboids (including cubes) and capacity e.g. using water. Solve measure problems including volume.

		Solve problems involving converting between units of time.				
SCIENCE	**Topic: Fascinating Forces** How a ball flies through the air; What friction is and how it helps us; How different objects fall; What gravity is and how it pulls on objects; How air resistance affects moving objects; How water pushes up on floating objects; Why some objects float and others sink. Forces - Recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect. **Space Scientists** How we can prove that Earth is a sphere; What our planet is made of; If the Earth is a magnet; About the Earth's atmosphere; Why we need the Sun; How the Sun, Earth and Moon are connected; Why the Earth's rotation results in day and night; How to make a shadow clock; How the tilt of Earth's axis gives us the seasons; How the Moon affects the Earth; If there is a better place to live than Earth		**Topic: Making New Materials** What happens when we dissolve or melt things? About gases and what they are; About different materials used in the kitchen; About conductors and insulators; About magnetic materials and their uses; How to separate mixtures by sieving, filtering and evaporating; Properties and changes of materials; Compare and group together everyday materials based on their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal). Give reasons based on evidence from comparative and fair tests for the particular uses of everyday materials, including metals, wood and plastic. 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.		**Topic: Living things and their habitats** Describe the differences in the lifecycles of a mammal, an amphibian, an insect and a bird. Describe the life processes of reproduction in some plants and animals Animals, including humans - Describe the changes as human develop to old age.	
COMPUTING	Spreadsheets Online Safety Game Creator Online Safety: Safe passwords & communication methods; Is everything on the Internet true?		Databases Concept Maps Coding Online Safety Day Animation.		3D Modelling Online Safety Coding using 2Code	
HISTORY	**Topic: Mission to Mars** A depth study about the history of space exploration and its impact on technology Child led Historical Enquiry *Significant Individuals: Yuri Gagarin, Valentina Tereshkova, Dr Sally Ride, Alyssa Carson* *Key vocabulary: Chronological, Causation, Monarchy, Parliament, Invention, Technological Advancement, Enquiry*		**Topic: The Great, the Bold and the Brave** Host Country: Greece Ancient Greece – a study of Greek life and achievements and their influence on the western world Know about the Roman Empire and its impact on Britain including British resistance e.g. Boudicca; 'Romanisation' of Britain: sites such as Caerwent and the impact of technology, culture and beliefs, including early Christianity; Roman withdrawal from Britain in c AD410 and the fall of the Western Roman Empire Historical Enquiry: How do we use Ancient Greek ideas today? Significant Individuals: Boudicca, Julius Caesar Key vocabulary: See more detailed plans		**Topic: The Earth as an Island** An overview of the Viking and Anglo-Saxon struggle for the Kingdom of England to the time of Edward the Confessor. Historical Enquiry: Why did the Vikings invade and settle in Britain? Significant Individuals: Alfred the Great, Athelstan, King Cnut Key vocabulary: see more detailed plans	

GEOGRAPHY	**<u>Mission to Mars</u>** **Use maps, atlases, globes and digital/computer mapping to locate countries and describe features studied.** Know about the geographical features of Mars and how we can prove that there was once water on Mars	**<u>The Great, The Bold and The Brave</u>** **Host Country: Greece** Locate the world's countries, using maps to focus on Europe (Italy and Greece) Understand geographical similarities and differences through the study of human and physical geography of a region in a European country (Rome and Greece) Human geography, including: types of settlement and land use, economic activity including trade links, the distribution of natural resources including energy, food minerals and water. Use maps, atlases, globes and digital/computer mapping to locate countries and describe features studied.	**<u>Earth as an Island</u>** **Locate the world's countries concentrating on key physical and human characteristics.** Name and locate counties and cities of the United Kingdom, key topographical features and land use patterns; and understand how some of these aspects have changed over time. Identify the position and significance of latitude, longitude, equator, Northern Hemisphere, Southern Hemisphere, the Tropics of Cancer and Capricorn, Arctic and Antarctic circle, the Prime/Greenwich Meridian and time zones (including day and night). Understand geographical similarities and differences through the study of human and physical geography of a region of the United Kingdom (Lundy Island) Human geography, including types of settlement and land use, economic activity including trade links, the distribution of natural resources including energy, food minerals and water. Use maps, atlases, globes and digital/computer mapping to locate countries and describe features studied. Use the eight points of a compass, six-figure grid references, symbols and key (including the use of Ordnance Survey maps) to build their knowledge of the United Kingdom and the wider world (Create a map of a sustainable village)
ART/DT	Children will learn that art is concerned with visual and tactile expression and communication. They will learn how artists, craftspeople and designers from a variety of traditions - including those of their home country and the host country - use materials, forms and techniques to express their emotions, observations and experiences. Children will use a wide variety of materials, forms and techniques; they will make judgements about works of art, showing understanding, appreciation, respect and enjoyment. They will consider works of art in terms of meaning, design, materials, technique, place and time.		
PE	**Sport: Football** Children will master basic movements including running with the ball, tackling, passing. Children will participate in team games. **Sport: Rugby** Children will master basic movements including running with the ball, tackling, passing Children will participate in team games.	**Sport: Swimming** Children will master basic swimming strokes – front crawl, back stroke and breaststroke. **Sport: Gymnastics** Children will master some basic techniques in balance, agility, core strength and movement. Safe use of equipment. Children will also review performance, how to improve performance.	**Sport: Athletics** Children will master basic techniques in field and track events as well as developing balance, agility and co-ordination, and begin to apply these in a range of activities. **Sport: Cricket / Rounders** Children will master basic techniques in striking the ball, running, catching and throwing.

Music	**Our Community** + ***Harvest Assembly*** - Learn about different metres (times) in music. - Conduct 2, 3 and 4 time music. - Develop ability to recognise 2, 3 and 4 time music. - Writing lyrics for a class version of a community song - Listening and appraising different genres/ styles - Begin Grade 1 Music theory book. **Space** ***+ Carol Concert*** - Listening to songs and music based on the Solar system and analysing the compositions using musical vocabulary. - Interpret images to create descriptive sound sequences. - Develop the use of dynamics in singing. - Learn a melodic ostinato using staff notation. - Develop techniques of rap using texture and rhythm.	**Ancient worlds** - Exploring 3 part singing and composition through Greek and Roman mythology. - Learning to sing songs based on the stories of Orpheus, Echo and Theseus and accompanying them with melodic ostinati. - Listening and appraising different genres/ styles. - Continue with Grade 1 Music theory book. **Jazz Junk and Bin Bhangra** ***+ Spring Concert*** - Make junk instruments to perform jazz patterns on. - Understanding syncopation. - interpreting notation and improvising. - Understanding ABA Ternary and Rondo music structures. - Watch a 'Stomp' clip and compose sequences using junk instruments, moving and body percussion. - Continue with Grade 1 Music theory book. - Develop confidence and accuracy of performance in preparation for their Spring Concert.	**Gamelan** - Experience a visiting Gamelan workshop. - Develop understanding of texture through playing different parts in gamelan music. - Learn the different names of gamelan instruments. - Develop team skills by composing a multi-layer gamelan piece with a steady pulse. - Continue with Grade 1 Music theory book. **Music History 1** ***+ Summer concert*** - Explore the history of music and musical instruments. - Develop knowledge of Ancient music and instruments (Africa, Asia, Egypt), Medieval, Renaissance, Baroque and Classical/Romantic music. - Learn about the evolution of instruments, compositions, musical styles and famous/iconic composers.
Well-Being Programme/ PSHE / Philosophy	Teamwork - class contract; strengths of the community x 1 Kindness Network Rail – safety talk; Road safety talk; Harvest Festival; Gratitude; Big Draw – teamwork Families and People Who Care for Me.x 3 Caring friendships x 3 Diwali; Hanukah; Bonfire Night; Halloween; Eid; Christmas; Anti-Bullying Week x 1 Positive Mental Health x 1 Sustainability x 1	New year, new start – goals x 1 Curiosity St David's Day; British Values; Mother's Day; Easter; St David's Day & St Patrick's Day; World Book Day Safer Internet Day x 1 Drugs and Alcohol x 3 Sex & Relationships Education x 3 Positive Mental Health x 1 Sustainability x 1	Persistence - working towards SATs Courage St George's Day; Healthy Eating - Food Revolution; Sports Day – Teamwork; Ramadan Health & prevention of illness x 1 Being Safe x 3 Transition x 4 Positive Mental Health x 1 Sustainability x 1
MFL Spanish	Present Perfect + food. What have you eaten today? Table manners. Healthy eating. Numbers 0-1000. Describe different buildings, shapes, materials, types...	To express an opinion about what they like to do on their free time. Animals: their appearance and habitats. Present continuous.	Environment and recycling. Modal verbs: Must, Should and have to. Regular verbs in past tense. Irregulars (To do, To go, To have and To be)