



	YEAR 4	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Core subjects	Maths	Place value <ul style="list-style-type: none"> count in multiples of 6, 7, 9, 25 and 1000 count backwards through zero to include negative numbers identify, represent and estimate numbers using different representations read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value find 1000 more or less than a given number recognise the place value of each digit in a four-digit number (Th, H, T, O) order and compare numbers beyond 1000 	Addition and subtraction <ul style="list-style-type: none"> add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate solve addition and subtraction twostep problems in contexts, deciding which operations and methods to use and why Area <ul style="list-style-type: none"> measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres find the area of rectilinear shapes by counting squares Multiplication and division (A) <ul style="list-style-type: none"> recall multiplication and division facts for multiplication tables up to 12 x 12 use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers recognise and use factor pairs and commutativity in mental calculations 	Multiplication and division (B) <ul style="list-style-type: none"> multiply two-digit and three-digit numbers by a one-digit number using formal written layout solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to objects Perimeter and area <ul style="list-style-type: none"> measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres find the area of rectilinear shapes by counting squares 	Fractions <ul style="list-style-type: none"> count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten recognise and show, using diagrams, families of common equivalent fractions add and subtract fractions with the same denominator solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number Decimals (A) <ul style="list-style-type: none"> recognise and write decimal equivalents of any number of tenths or hundredths recognise and write decimal equivalents to 1/4, 1/2, 3/4 round decimals with one decimal place to the nearest whole number compare numbers with the same number of decimal places up to two decimal places 	Decimals (B) <ul style="list-style-type: none"> solve simple measure and money problems involving fractions and decimals to two decimal places Money <ul style="list-style-type: none"> estimate, compare and calculate different measures, including money in pounds and pence Time <ul style="list-style-type: none"> read, write and convert time between analogue and digital 12- and 24-hour clocks solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days 	Shape <ul style="list-style-type: none"> compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes identify lines of symmetry in 2-D shapes presented in different orientations identify acute and obtuse angles and compare and order angles up to two right angles by size identify lines of symmetry in 2-D shapes presented in different orientations complete a simple symmetric figure with respect to a specific line of symmetry Statistics <ul style="list-style-type: none"> interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs Position and Direction <ul style="list-style-type: none"> describe positions on a 2-D grid as coordinates in the first quadrant describe movements between positions as translations of a given unit to the left/right and up/down plot specified points and draw sides to complete a given polygon
	Writing	Entertain: Narrative Persuade: Persuasive speech Entertain: Poetry – free verse	Inform: Explanations Entertain: Narrative	Inform: Newspaper reports Persuade: Travel leaflets	Entertain: Narrative Entertain: Poetry – Haiku	Persuade: Persuasive letters Inform: Non-chronological report	Entertain: Poetry Entertain: Narrative Entertain: Poetry
	Science	Digestion and food <ul style="list-style-type: none"> using models, describe the function of key organs in the digestive system. identify the types of human teeth to create a model and investigate factors that impact our dental health. compare human teeth to other animals' and consider this in the light of prior knowledge about predators, prey and food chains. take on the role of a naturalist investigating animal faeces for clues about diet, digestion and dentition 	Electricity and circuits <ul style="list-style-type: none"> explore appliances that use electricity in their setting learn how to work with electricity safely and build circuits. investigate electrical conductors and insulators and explore the relationship between the number of bulbs and bulb brightness. understand scientific progression and home safety through real scenarios and historical discoveries. 	States of matter <ul style="list-style-type: none"> investigate the properties of solids, liquids and gases learn about the different states of matter. explore changes of state using relatable examples and use this to explain changes to water through the water cycle investigate the relationship between temperature and rate of evaporation while broadening their experience of working scientifically. 	Sound and vibrations <ul style="list-style-type: none"> explore different ways of producing sounds learn about the relationship between vibrations and what they hear. study dolphins and whales to develop understanding of how sound travels between objects and investigate the role of insulation to protect our ears. explore how pitch and volume can be altered and make their own musical instruments to demonstrate these principles 	Classification and changing habitats <ul style="list-style-type: none"> identify different ways living things can be grouped make classification keys to explore which grouping methods are most effective. study ways that habitats may change over time and understand that humans can have both positive and negative effects on their surroundings. play the role of naturalists and review the impact of conservation programmes 	How does the flow of liquids compare? <ul style="list-style-type: none"> consider methods for measuring how liquids flow differently from each other. plan and execute an enquiry, considering different ways of representing data to support a conclusion. revisit the digestive system and explore how the flow of different liquids should be considered when producing different medicines.
Foundation subjects	Geography	Why are rainforests important to us? <ul style="list-style-type: none"> focus on the link between biomes and climate and locate the Amazon rainforest and explain how the vegetation in a tropical rainforest is defined by the two Tropics investigate the physical features and layers of the Amazon rainforest, considering how plants adapt to these conditions learn about the people who live in the rainforest and discuss the impact of human activity locally and globally 		Where does our food come from? <ul style="list-style-type: none"> look at the distribution of the world's biomes and map food imports from around the world learn about trading fairly with a specific focus on Côte d'Ivoire and cocoa beans explore where the food for their school dinners comes from and the pros and cons of local versus global 		What are rivers and how are they formed? <ul style="list-style-type: none"> develop an understanding of the water cycle by investigating and recording different weather phenomena map out the world's major rivers and learn about the features and courses of a river study a local river as fieldwork and learn about ways in which humans interact with and use rivers locally and in a contrasting environment 	
	History	How have children's lives changed? <ul style="list-style-type: none"> investigate the changes in children's lives through time and learn how spare 		British History 3: How hard was it to invade and settle in Britain?	British History 3: How did the achievements of the Maya civilisation influence their society and beyond		



	time, children's health and work have changed • explore the most crucial change - work - in more detail, learning about a day in the life of a working child before learning about the significance of Lord Shaftesbury and his impact on schools and working conditions		<ul style="list-style-type: none"> • develop an understanding of why people invade and settle • learn about the Anglo-Saxon invasion and Viking raids • learn about Anglo-Saxon beliefs and how Christianity spread • investigate Anglo-Saxon settlements and investigate how the period of Anglo-Saxon rule came to an end 		<ul style="list-style-type: none"> • investigate historical and archaeological evidence, children explore the achievements of ancient people like the Maya • make inferences and observing artefacts, they study the Ancient Maya's settlements in rainforests the cultural significance of chocolate and the impact of their beliefs 	
Computing		Computing systems and networks <ul style="list-style-type: none"> • understand that software can be used to work offline collaboratively • understand how to create a digital survey • create and share a Microsoft form • analyse data Programming 1 <ul style="list-style-type: none"> • understand how a Scratch game works by using decomposition to identify key features • recognise what a variable is • create a quiz using variables 		Data handling <ul style="list-style-type: none"> • log data taken from online sources in a spreadsheet • design an automated machine to respond to sensor data • understand how weather forecasts are made Online safety <ul style="list-style-type: none"> • describe how to search for information within a wide group of technologies and make a judgement about the probable accuracy • describe some of the methods used to encourage people to buy things online • explain why lots of people sharing the same opinions or beliefs online do not make those opinions or beliefs use 		Online safety <ul style="list-style-type: none"> • explain that technology can be designed to act like or impersonate living things • explain how technology can be a distraction and identify when I might need to limit the amount of time spent using technology Programming 2 <ul style="list-style-type: none"> • understand that computational thinking is made up of four key strands • understand what decomposition is and how to apply it to solve problems • understand what pattern recognition and abstraction mean • understand how to create an algorithm and what it can be used for • combine computational thinking skills to solve a problem
Art & Design	Drawings: Power prints <ul style="list-style-type: none"> • use everyday electrical items as a starting point • develop an awareness of composition in drawing • combine media for effect to develop a drawing into a print. 		Painting and mixed media: Light and dark <ul style="list-style-type: none"> • develop colour mixing skills • use shades and tints to show form and create three dimensions when painting • learn about composition • plan their own still life to paint, applying chosen techniques 		Craft and design: Fabric of nature <ul style="list-style-type: none"> • use flora and fauna of tropical rainforests as a starting point • develop drawings through experimentation • explore textile-based techniques to design a repeating pattern suitable for fabric 	
Design & Technology		Frame Structures: Pavilions (Aut 2) <ul style="list-style-type: none"> • Explore a range of pavilion structures, finding out about their materials, construction, and purpose. • Investigate how to create strong and stable frame structures by reinforcing corners and selecting appropriate materials. • Design and create a stable, decorated pavilion structure for a specific client. 		Mechanical systems: Make a slingshot car (Spr 2) <ul style="list-style-type: none"> • Design and make a car with a working slingshot mechanism. • Use a range of nets to create structures to house the mechanism. • Explore different shapes to reduce air resistance. • Conduct a trial accurately and draw conclusions and make improvements from the results. 		Electrical systems: Torches (Sum 2) <ul style="list-style-type: none"> • Identify the difference between electrical and electronic products. • Evaluate a range of torches and their features. • Develop a new functioning torch with a switch, applying their scientific understanding of electrical circuits. • Create suitable designs and their own success criteria, giving consideration to the target audience.
PSHE	Family and relationships <ul style="list-style-type: none"> • Families in the UK and around the world; roles related to bullying (including victim, bully, bystander) 	Family and relationships <ul style="list-style-type: none"> • Courtesy and manners; stereotypes related to disability; feelings around bereavement or big life changes Health and wellbeing <ul style="list-style-type: none"> • Dental health; visualisation; skills for different jobs 	Health and wellbeing <ul style="list-style-type: none"> • Experiencing a range of emotions; mental health is emotional wellbeing rather than physical; looking after own/other's mental health and getting support Safety and the changing body <ul style="list-style-type: none"> • Risks to sharing online; private Vs public when online; risks of smoking; physical changes in bodies from child to adult; asthma 	Citizenship <ul style="list-style-type: none"> • Human rights; protecting human rights; role of local councillors 	Citizenship <ul style="list-style-type: none"> • Benefits to the environment on reusing items; groups that make up the local community Economic wellbeing <ul style="list-style-type: none"> • Getting value for money; purchases influenced by needs, wants, peer pressure, advertising; interest earned on bank accounts 	Economic wellbeing <ul style="list-style-type: none"> • Changing jobs; stereotypes in society Transition <ul style="list-style-type: none"> • Setting goals to help achieve something
PE	Teacher – Yoga YDP – Quicksticks	Teacher – Gymnastics YDP – Dodgeball	Teacher – Swimming YDP – Football	Teacher – Swimming YDP – Tennis	Teacher – Dance – Eco warrior YDP – Athletics	Teacher – OAA YDP – Kwik cricket

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	Music	Body and tuned percussion <ul style="list-style-type: none"> • identify the structure of a piece of music • have an idea as to when there is one layer in a piece of music and when there are two • play a sequence in the correct order in time with their partner • have two contrasting rhythms being played together • have a complete piece of music with four different layers with an appropriate structure 	Haiku, music and performance <ul style="list-style-type: none"> • suggest suitable words to describe their time outdoors, changing the sounds of their words to match their meanings • recognise, name and describe the effect of the interrelated dimensions of music • select instruments and sounds which match their vocabulary • work as a group to create a piece of music • perform a piece of music as part of a group 	Music Hub – WCIT	Music Hub - WCIT	Samba and carinval sounds and instruments <ul style="list-style-type: none"> • explain what samba music is and that it is mainly percussion instruments used in celebrations such as Carnival in Brazil • clap on the off beat and be able to play a syncopated rhythm • play their rhythm in time with the rest of their group (even if they are not always successfully playing in time with the rest of the class) • play their break in time with the rest of their group and play in the correct place • play in time and with confidence; accurately playing their break 	Changes in pitch, temp and dynamics <ul style="list-style-type: none"> • sing in tune and in harmony with others, with developing breath control • explain how a piece of music makes them feel with some use of musical technology • perform a vocal ostinato in time • listen to other members of their group as they perform • create an ostinato and represent it on paper so that they can remember it • create and perform a piece with a variety of ostinatos
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