Maths

(National Curriculum Units may span across other half terms. Teachers will use their discretion as to how long the children need to spend on each unit.)

Cycle A

	1 Time Travel	2 Planet Earth	3 Heroes and Villains	4 What's in the News?	5 Food for Thought	6 Incredible Humans
EY	**All About Me** Maths continuous provision activities: - Number recognition – finding your age - Counting the amount of years that you/your parents or carers have been alive - Discussing 'older' and 'younger' - Comparing different people's heights - Understanding 'same' and 'different'	**Solar System** Maths continuous provision activities: - Learning about measuring implements, such as thermometers and rulers, to study temperatures and how plants grow - Comparing distances - Comparing 'same' and 'different' - Studying how liquids fill containers - Comparing mass	**Fairy Tales** Maths continuous provision activities: - Counting the items in Little Red Riding Hood's basket - Counting the steps to get to Grandma's house - Measuring when building the Three Little Pig's houses - Counting the leaves on the beanstalk - Counting Jack's magic beans - Identifying patterns on the gingerbread house	**Spring into Action** Maths continuous provision activities: - Measuring the growth of plants - Studying temperatures - Measuring rainfall - Counting new shoots - Studying 'reflection' when making a print of a flower	**Healthy Living** Maths continuous provision activities: - Counting movements during PE sessions - Timing sessions of physical activity - Measuring ingredients in a healthy meal - Discussing mass - Discussing growth - Measuring distances - Keeping scores	**People who Help us** Maths continuous provision activities: - Studying how much water different containers can hold - Measuring the length of a fire hose - Counting the steps a fireman may have to climb - Learning the number for the Emergency Services
1/2	**Back to the Stone Age** NC Unit: - Place value - Addition and subtraction - Multiplication Cross-curricular maths: - Considering pattern and reflection when making Stone Age art	**Hidden Habitats** NC Unit: - Multiplication continued - Measure: length, mass and time Cross-curricular maths: - Science: graphing fieldwork findings when looking for minibeasts - Computing: using positional and directional language whilst writing algorithms - Design and technology: measuring lengths	**From Book to Film** NC Unit: - Measure: time continued - Measure: money - Shape: 2D and 3D - Position and direction - Statistics Cross-curricular maths: - A pictogram to represent all of the plants in Rapunzel's garden. - Science: measuring the distance that the Three Little Pigs' houses blow	**Save the Orangutans** NC Unit: - Place Value - Addition - Subtraction Cross-curricular maths: - Geography: a greater than/less than activity to compare the continents that produce the most or least palm oil - Design and technology: measuring lengths	**Take me to Italy** NC Unit: - Multiplication - Division - Fractions Cross-curricular maths: - Design and technology: measuring ingredients - Science: measuring liquids during a teeth investigation - Computing: statistics	**Amazing Amy** NC Unit: - Fractions continued - Measure: capacity, mass, length and money Cross-curricular maths: - Addition and subtraction activity to work out the differences in amount of miles travelled - Science: measuring amounts of liquid when watering plants, and measuring the heights of plants
3/4	**Vikings** NC Unit: - Number and place value - Addition and subtraction Cross-curricular maths: - Art: studying shape and reflection when making Viking brooches - Science: taking measurements	**Up in Smoke** NC Unit: - Multiplication and division - Fractions and decimals Cross-curricular maths: - Design and technology: measuring components when making an erupting volcano - Geography: ordering heights of volcanoes around the world - Science – measuring temperature	**The Second World War** NC Unit: - Measure - Geometry Cross-curricular maths: - Using nets to make Second World War aeroplane models	**What a Load of Rubbish!** NC Unit: - Statistics - Addition and subtraction Cross-curricular maths: - Geography: bar charts and tally charts to show physical and human features of the local area	**Chocolate: Is it Worth it?** NC Unit: - Multiplication and division - Fractions and decimals Cross-curricular maths: - Design and technology: measuring ingredients for baking - Computing: data and branching databases	**Ancient to Invictus** NC Unit: - Measure - Geometry Cross-curricular maths: - PE: time and distance – children creating and taking part in their own sports - Science – measurements
5/6	**Ancient Greece** NC Unit: - Number and place value - Addition and subtraction - Multiplication and division Cross-curricular maths: - History: use of Venn diagrams to sort events in the Ancient and Modern-day Olympics. - Science: measuring time using a stop watch/measuring force using a newton meter	**Disaster!** NC Unit: - Fractions, decimals and percentages - Measures Cross-curricular maths: - Geography: use of co-ordinates when looking at longitude and latitude to identify points on the world map. - Science: graphs - Design and technology: measuring to build shelters	**"Toil and Trouble…"** NC Unit: - Statistics - Geometry Cross-curricular maths: - History: key dates are to be ordered and put on a timeline - Science: measure and statistics (data collection and graphs)	**Our Community** NC Unit: - Number and place value - Addition and subtraction Cross-curricular maths: - Design and technology: using nets	**Great Southcoates Bake Off** NC Unit: - Multiplication and division - Fractions, decimals and percentages Cross-curricular maths: - Design and technology: measures – recipes, baking and measuring of ingredients - Science: measure/ statistics	**A Gentleman's Game?** NC Unit: - Measures - Geometry - Statistics Cross-curricular maths: - Science: graphs and measuring length

Cycle B

	1 Kings and Queens	2 A Drop in the Ocean	3 A Stitch in Time	4 A Helping Hand	5 Battle of the Authors	6 Survival of the Fittest
EY	**Medieval Times** Maths continuous provision activities: - Studying nets to make castles - Patterns in bricks - Counting the spots on a dragon - Measuring distance when firing a medieval catapult	**Under the Sea** Maths continuous provision activities: - Comparing the volume of containers - Counting sea creatures - Studying reflection and symmetry when making a picture of The Rainbow Fish - Keeping statistics when observing sea creatures	**Materials that we use** Maths continuous provision activities: - Counting how many outfits Mr Benn has - Looking at numbers in relation to dates - Talking about 'older' and 'newer' - Measuring the size of the teddy's hat	**The gift of charity** Maths continuous provision activities: - Counting pennies - Comparing sizes - Ordering sizes - Studying reflection and symmetry when printing	**Julia Donaldson vs John Burningham** Maths continuous provision activities: - Measuring the distance travelled by a vehicle - Counting the characters in a story - Observing shapes in vehicles	**Healthy Bodies, Healthy Minds** Maths continuous provision activities: - Counting movements during PE sessions - Timing sessions of physical activity - Measuring ingredients in a healthy meal - Discussing mass - Discussing growth - Measuring distances - Keeping scores - Making shapes with out bodies
1/2	**The Victorians** NC Unit: - Place value - Addition and subtraction - Multiplication Cross-curricular maths: - History: when designing the postage stamp, there will be a money activity linked to postage costs then and now. - Science: tally chart to show the materials found around the school.	**Penguin Parade** NC Unit: - Multiplication continued - Measure: length, mass and time Cross-curricular maths: - Design and technology: when designing a pop up card, there will be a measure activity to measure the slits, hinges etc. - Science: comparing and categorising: sorting animals into different groups - Computing: using positional and directional language when writing algorithms	**Magical Memories** NC Unit: - Measure: time continued - Measure: money - Shape: 2D and 3D - Position and direction - Statistics Cross-curricular maths: - History: addition and subtraction task to work out the differences in ages of people. For example: how much older is… / how much younger is….? - History: timeline task to order ages (2 digit numbers) on a number line	**999 Emergency!** NC Unit: - Place value - Addition - Subtraction Cross-curricular maths: - Reading: problem solving task to work out how many good deeds the character in Ordinary Mary's Extraordinary Deed carried out.	**Beatrix Potter vs Oliver Jeffers** NC Unit: - Multiplication - Division - Fractions Cross-curricular maths: - Reading: multiplication activity: how many vegetables in Mr McGregor's garden? - Science: measuring the height of plants - Science: representing data	**Predators** NC Unit: - Fractions continued - Measure: capacity, mass, length and money Cross-curricular maths: - Science: statistics - a block graph to compare the characteristics of animals, such as speed, size etc. based on research from non-fiction books. - Design and technology – measuring ingredients.
3/4	**Henry VIII** NC Unit: - Number and place value - Addition and subtraction Cross-curricular maths: - History: ordering dates on a timeline. - Science: measure	**The Lost Villages** NC Unit: - Multiplication and division - Fractions and decimals Cross-curricular maths: - History: time – years/decades/centuries linked to coastal erosion - Science: temperature	**Fashion in the 1960s** NC Unit: - Measure - Geometry Cross-curricular maths: - Design and technology: 2D shape patterns (repeated and/or symmetrical) and measuring when sewing own designs	**Emergency Services** NC Unit: - Statistics - Addition and subtraction Cross-curricular maths: - Geography: co-ordinates to plot emergency services onto a map of the local area - Science: measuring time and heart rate - Geography: plotting coordinates	**Roald Dahl vs David Walliams** NC Unit: - Multiplication and division - Fractions and decimals Cross-curricular maths: - Computing: data and branching databases - Science: recording time	**Deadly Sixty** NC Unit: - Measure - Geometry Cross-curricular maths: - Geography: map work – compass points - Statistics – most deadly animals
5/6	**Boudicca** NC Unit: - Number and place value - Addition and subtraction - Multiplication and division Cross-curricular maths: - Art: mosaics with repeated pattern and symmetry - Science: measuring time using a stop watch/measuring force using a newton meter	**The Journey** NC Unit: - Fractions, decimals and percentages - Measures Cross-curricular maths: - Geography: use of co-ordinates when looking at longitude and latitude to identify points on the world map - Science: capacity	**The Elizabethans** NC Unit: - Statistics - Geometry Cross-curricular maths: - History: key dates are to be ordered and put on a timeline - Design and technology: measures to create a costume accessory - Science: measure and statistics (data collection and graphs)	**Looking after Others** NC Unit: - Number and place value - Addition and subtraction Cross-curricular maths: - Enterprise: planning, budgeting and looking at the finances of organising a fundraising event. - Art: shape	**C.S.Lewis vs Phillip Pullman** NC Unit: - Multiplication and division - Fractions, decimals and percentages Cross-curricular maths: - History: Venn diagrams to compare Modern day Britain and the early 1900s - Science: measure/ statistics	**Running Wild** NC Unit: - Measures - Geometry - Statistics Cross-curricular maths: - Design and technology: measures and mass - Geography: use of co-ordinates when looking at longitude and latitude to identify points on the world map