Worksop Priory C of E Primary Academy

Big Maths SAFE Long Term Planning Overview

Steps shown in each term indicate where a new step is introduced. Previous steps recapped according to Big Maths online planning tool.

Term	Autumn	Spring	Summer
Nursery	Shape: Explore and Draw - Step 1: I can show awareness of shapes as I play. 2D Shapes - Step 1: I know 2D shapes exist. Position and Direction – Step 1: I can 'post' shapes. Amounts: Amounts of Distance - Amounts of Distance - Step 1: I can show awareness of size. Amounts of Distance - Step 2: I can describe an object as tall or short. Amounts of Mass - Step 1: I can play with containers. Amounts of Space - Step 1: I can show interest in containers when I play. Amounts of Time - Step 1: I can show experience of routines. Amounts of Time - Step 2: I can understand simple routines. Amounts of Time - Step 3: I understand now and later. Fractions: No new learning steps introduced. Explaining Data: No new learning steps introduced. Dangerous Maths Pattern Spotting - Step 1: I can understand simple routines. Pattern Spotting - Step 2: I notice patterns in pictures and stories. :	Shape: Explore and Draw - Step 2: I can show interest in shapes as I play. 3D Shapes - Step 1: I know 3D shapes exist. Position and Direction – Step 2: I can follow some early 'position talk'. Position and Direction – Step 3: I can follow 1-step movement instructions. Amounts: Amounts of Mass - Step 2: I can describe an amount of mass as heavy or light. Amounts of Money - Step 1: I can show awareness of money. Amounts of Space - Step 2: I can describe an amount of space. Amounts of Temperature - Step 1: I understand the word hot. Amounts of Temperature - Step 2: I understand the word cold. Amounts of Time - Step 4: I understand fast and slow Fractions: No new learning steps introduced. Explaining Data: No new learning steps introduced. Dangerous Maths No new learning steps introduced.	Shape: Explore and Draw - Step 3: I can explore symmetry in my play. 2D Shapes - Step 2: I can use 2D shapes when I play/make. Position and Direction – Step 4: I can use some early 'position talk'. Position and Direction – Step 5: I can follow 2-step movement instructions. Amounts: Amounts of Money - Step 2: I can play 'shop'! 1 - buying things. Fractions: No new learning steps introduced. Explaining Data: Diagrams and Tables - Step 2: I can record my sorting using mark making. Dangerous Maths Pattern Spotting - Step 3: I can copy simple patterns when clapping.
Reception	Shape: Explore and Draw - Step 4: I can show interest in shapes around me. 2D Shapes - Step 3: I can describe simple 2D shapes. 3D Shapes - Step 2: I can use 3D shapes when I play. Position and Direction – Step 6: I can move myself in lots of specific ways. Amounts: Amounts of Temperature - Step 3: I can compare hot to cold. Amounts of Temperature - Step 4: I understand hotter and colder. Amounts of Time - Step 5: I can describe periods of time. Amounts of a turn - Step 1: I can make a whole turn. Fractions: No new learning steps introduced. Explaining Data: No new learning steps introduced. Dangerous Maths :Pattern Spotting - Step 4: I can create two colour patterns.	Shape: Explore and Draw - Step 5: I can use shapes with purpose as I play. 2D Shapes - Step 4: I can see when shapes are similar. 2D Shapes - Step 5: I can recognise a circle. 2D Shapes - Step 6: I can recognise a square. 2D Shapes - Step 7: I can recognise a triangle. 3D Shapes - Step 3: I can recognise a cube. 3D Shapes - Step 4: I can recognise a pyramid. 3D Shapes - Step 5: I can recognise a sphere. Position and Direction – Step 7: I can describe my own position. Amounts: Amounts of Distance - Step 3: I can compare 2 different amounts of distance. Amounts of Mass - Step 3: I can compare 2 different amounts of mass. Amounts of Money - Step 3: I can play 'shop'! 2 - identifying coins, narrating and giving change. Amounts of Space - Step 3: I can compare 2 different amounts of space. Amounts of Time - Step 6: I can order daily events. Fractions: Fractions of a Set - Step 1: I can show awareness of half of an amount. Explaining Data: Diagrams and Tables - Step 3: I can collect data using objects. Dangerous Maths Pattern Spotting - Step 5: I can create three colour patterns.	Shape: Explore and Draw - Step 6: I can create a symmetrical picture. 2D Shapes - Step 8: I can name and describe simple 2D shapes. 2D Shapes - Step 9: I can recognise a rectangle (and know that a square is a special rectangle). 2D Shapes - Step 10: I can identify 2D shapes in real life. 3D Shapes - Step 6: I can describe simple 3D shapes. 3D Shapes - Step 7: I can identify 3D shapes in real life. Position and Direction – Step 8: I can describe a variety of different positions, for me, others or objects as I play. Amounts: Amounts of Distance - Step 4: I can compare 3 different amounts of distance. Amounts of Mass - Step 4: I can compare 3 different amounts of mass. Amounts of Money - Step 4: I can play 'shop'! 3 - making simple calculations. Amounts of Space - Step 4: I can compare 3 different amounts of space. Amounts of Time - Step 7: I can begin to measure time. Amounts of Time - Step 8: I know about annual events. Amounts of Time - Step 9: I can chant the days of the week. Amounts of a turn - Step 2: I can make a half turn. Fractions: Fractions of a Set - Step 2: I can find half of an amount by dividing it into two. Explaining Data: Diagrams and Tables - Step 4: I can record my sorting using numbers. Bar Charts - Step 1: I can build counting towers. Dangerous Maths Pattern Spotting - Step 6: I can spot, copy and create different patterns.
Year 1	Shape: Explore and Draw - Step 7: I can recognise symmetry around me. Position and Direction – Step 9: I can describe position, directions and movements. Amounts: Amounts of Distance - Step 5: I can compare amounts of distance by counting. Amounts of Time - Step 10: I can place several events in chronological order. Fractions: Fractions of a Whole - Step 1: I understand a half. Fractions of a Whole - Step 2: I can spot a half. Fractions of a Set - Step 3: I can find half of a set of objects by sharing.	Shape: 2D Shapes - Step 11: I know that there are different shaped triangles. Amounts: Amounts of Distance - Step 6: I can compare amounts of distance, using words and numbers, in lots of different practical contexts. Amounts of Mass - Step 5: I can compare amounts of mass by counting. Amounts of Money - Step 5: I can recognise specific coins and notes. Amounts of Money - Step 6: I can use coins to make totals up to 10p. Amounts of Space - Step 5: I can compare amounts of space by counting.	Shape: 2D Shapes - Step 12: I know that the same shape can come in different sizes. 2D Shapes - Step 13: I can recognise many different types of familiar 2D shapes. 3D Shapes - Step 8: I can recognise a cuboid and a cylinder. 3D Shapes - Step 9: I know that a cube is a special cuboid. 3D Shapes - Step 10: I can recognise many different types of familiar 3D shapes. Position and Direction – Step 10: I can understand 'clockwise' as a direction of turn. Amounts: Amounts of Mass - Step 6: I can compare amounts of mass, using words and numbers, in lots of different practical contexts.

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Term	Autumn	Spring	Summer
	Fractions: Learn-its - Step 1: I know my finger doubles as fractions Learn Its. Explaining Data: Diagrams and Tables - Step 5: I can sort using two lists. Diagrams and Tables - Step 6: I can sort using a circle. Dangerous Maths No new learning steps introduced.	Amounts of Temperature - Step 5: I can use a range of words to describe temperature. Amounts of Time - Step 11: I can use my understanding of time in all areas of my learning. Amounts of Time - Step 12: I can understand the date. Amounts of Time - Step 13: I can count in o'clocks. Amounts of Time: Telling the Time - Step 1: I can read o'clock times. Amounts of Time: Telling the Time - Step 2: I can write o'clock times. Amounts of Time: Telling the Time - Step 3: I can describe the time using the nearest o'clock Fractions: Fractions of a Set - Step 4: I can find a third of a set of objects by sharing. Explaining Data: No new learning steps introduced. Dangerous Maths Pattern Spotting - Step 7: I can extend patterns (including number).	Amounts of Money - Step 7: I can use coins to make totals up to 20p. Amounts of Space - Step 6: I can compare amounts of space, using words and numbers, in lots of different practical contexts. Amounts of Time: Telling the Time - Step 4: I can read, write and draw half past. Amounts of a turn - Step 3: I can make a quarter and three-quarter turn. Fractions: Fractions of a Whole - Step 3: I understand a quarter. Fractions of a Whole - Step 4: I can spot a quarter. Fractions of a Whole - Step 5: I understand a third. Fractions of a Whole - Step 6: I can spot a third. Fractions of a Whole - Step 7: I can spot equal parts of a whole. Fractions of a Set - Step 5: I can find a quarter of a set of objects by sharing. Ratio - Step 1: I can show appreciation of a fixed number relationship. Explaining Data: Diagrams and Tables - Step 7: I can explain the Big Maths Beat That! Display. Diagrams and Tables - Step 8: I can sort objects using two circles. Diagrams and Tables - Step 9: I can explain simple pictograms. Diagrams and Tables - Step 10: I can keep a tally. Diagrams and Tables - Step 11: I can explain tally charts. Diagrams and Tables - Step 12: I can sort using a Carroll diagram. Bar Charts - Step 2: I can explain counting towers. Line Graphs - Step 1: I can track my own Big Maths Beat That! scores with a block graph Dangerous Maths Pattern Spotting - Step 8: I understand the pattern of odd and even numbers. Algebra - Step 1: I can use Pim to swap 'the thing' to a letter. Algebra - Step 2: I know symbols can represent unknown numbers. Prove it – Step 1: I can prove it! - 1
Year 2	Shape: Explore and Draw - Step 8: I can reflect a simple rectangle when given a vertical line of symmetry. Position and Direction – Step 11: I can understand 'anti-clockwise' as a direction of turn. Amounts: Amounts of Money - Step 8: I can use coins to make totals up to 100p. Amounts of Time - Step 14: I know there are 24 hours in a day. Amounts of Time - Step 15: I can count in 5 mins and know there are 60 minutes in an hour. Amounts of Time - Step 16: I know there are 60 seconds in a minute. Amounts of Time: Telling the Time - Step 5: I can read, write and draw quarter past and quarter to. Amounts of Time: Telling the Time - Step 6: I can read a digital clock. Amounts of a turn - Step 4: I know that the word angle describes amount of turn. Fractions: Fractions of a Whole - Step 8: I can find how many quarters. Explaining Data: Diagrams and Tables - Step 13: I can read a simple table. Diagrams and Tables - Step 14: I can explain that a picture represents a quantity. Diagrams and Tables - Step 15: I can explain a range of pictograms. Dangerous Maths : No new learning steps introduced.	Shape: Explore and Draw - Step 9: I can reflect a simple 2D shape when given a vertical line of symmetry. Explore and Draw - Step 10: I can identify a vertical line of symmetry in a 2D shape. 2D Shapes - Step 14: I can recognise a quadrilateral and a hexagon. 2D Shapes - Step 15: I can recognise a pentagon and an octagon. 2D Shapes - Step 16: I can recognise a heptagon and understand the word 'polygon'. 3D Shapes - Step 11: I understand edges, vertices and faces. 3D Shapes - Step 12: I can describe 3D shapes using different properties. 3D Shapes - Step 13: I can spot 2D shapes as faces on 3D shapes. Position and Direction – Step 12: I can move an object up or down a track, given the number of spaces. Amounts: Amounts of Money - Step 9: I know that £1 has the same value as 100p. Amounts of Money - Step 10: I know that amounts over £1 can be written as 125p or '£1 and 25p'. Amounts of Temperature - Step 6: I can use a thermometer to measure the temperature. Amounts of Temperature - Step 7: I know that we measure temperature in degrees Celsius. Fractions: Fractions: Counting - Step 1: I can count in halves. Fractions: Counting - Step 2: I can count in halves and record my counting as a mixed number. Fractions: Counting - Step 3: I can count in halves and record as a mixed number and improper fraction. Explaining Data:	Shape: Explore and Draw - Step 11: I can draw straight lines. Explore and Draw - Step 12: I can draw lines to the nearest centimetre. Explore and Draw - Step 13: I can draw simple shapes. Explore and Draw - Step 14: I can draw lines to the nearest half centimetre. 2D Shapes - Step 17: I can compare and sort many 2D shapes. 3D Shapes - Step 14: I know 'The Pyramid Family'. 3D Shapes - Step 15: I know 'The Prism Family'. 3D Shapes - Step 16: I can compare and sort 3D shapes. Amounts: Amounts of Distance - Step 7: I can compare descriptions of distance in practical contexts and record the comparisons with symbols. Amounts of Distance - Step 8: I can measure distance using metres. Amounts of Distance - Step 9: I can measure distance using centimetres. Amounts of Distance - Step 10: I can choose to count in metres or centimetres by seeing what makes most sense. Amounts of Mass - Step 7: I can compare descriptions of mass in practical contexts and record the comparisons with symbols. Amounts of Mass - Step 8: I can measure mass using grams Amounts of Mass - Step 9: I can measure mass using kilograms. Amounts of Mass - Step 10: I can choose to measure in kilograms or grams by seeing what makes most sense. Amounts of Money - Step 11: I can give change from a pound. Amounts of Money - Step 12: I can use all of my CLIC steps, so far, in the context of money (involving either pounds or pence).

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		Diagrams and Tables - Step 16: I can explain pictograms with half pictures. Bar Charts - Step 3: I can read a bar chart. Dangerous Maths Algebra - Step 3: I understand that = means the same amount as.	Amounts of Space - Step 7: I can compare descriptions of capacity in practical contexts and record the comparisons with symbols. Amounts of Space - Step 8: I can measure capacity using litres. Amounts of Space - Step 9: I can measure capacity using millilitres. Amounts of Space - Step 10: I can choose to measure in litres or millilitres by seeing what makes most sense. Amounts of Time - Step 17: I can say the months of the year. Amounts of Time - Step 18: I know all about an hour. Amounts of Time - Step 19: I can place different periods of time in order. Amounts of Time: Telling the Time - Step 7: I can count in 5s around a clock face. Amounts of Time: Telling the Time - Step 8: I can tell the time! Amounts of a turn - Step 5: I can recognise that a quarter turn is a right angle. Amounts of a turn - Step 6: I can use right angles in practical contexts. Fractions: Fractions of a Set - Step 6: I can find fractions of amounts by sharing and then counting (1 part only). Fractions of a Set - Step 7: I can reword my division success as fractions. Fractions of a Set - Step 8: I can find fractions of amounts by sharing and then counting (2 or more parts). Fractions: Counting - Step 4: I can count in quarters. Fractions: Counting - Step 5: I can count in quarters and record as halves. Fractions: Learn-its - Step 2: I know 1/2 = 2/4. Fractions: Learn-its - Step 3: I can quickly write out my fractions Learn Its: 1/2 of 10 = 5, 1/2 of 8 = 4, 1/2 of 6 = 3, 1/2 of 4 = 2, 1/2 of 2 = 1. Fractions: Learn-its - Step 4: I know all of my x2, x5 and x10 tables as fractions Learn Its. Fractions: INN - Step 1: I can swap 'the thing' to a fraction. Fractions: INN - Step 2: I can add halves. Fractions: INN - Step 3: I can add and subtract halves, quarters and thirds. Ratio - Step 2: I can use fixed number relationships in my learning. Explaining Data: No new learning steps introduced. Dangerous Maths Pattern Spotting - Step 9: I can spot and extend more challenging patterns of shapes. Prove it – Step 2: I can prove it! -2
Year 3	Shape: Explore and Draw - Step 15: I can recognise horizontal and vertical lines. Explore and Draw - Step 16: I can recognise parallel lines. Explore and Draw - Step 17: I can recognise perpendicular lines. 3D Shapes - Step 17: I can recognise the 3D shapes I know in context. Position and Direction – Step 13: I can use the four compass points to describe direction. Amounts: Amounts of a turn - Step 7: I can recognise half turns; three quarter turns and whole turns as amounts of right angles. Amounts of a turn - Step 8: I can tell if an angle is greater than or less than a right angle. Amounts of a turn - Step 9: I can move two arms to replicate an angle in a polygon. Amounts of a turn - Step 10: I can spot right angles in shapes. Fractions: Fractions of a Whole - Step 9: I can tell you fractions equal to 1, e.g. two halves, three thirds, four quarters, etc. Fractions of a Whole - Step 10: I can always count up how many equal parts altogether. Fractions of a Whole - Step 11: I can always count up how many equal parts are shaded.	Shape: Explore and Draw - Step 18: I can recognise lines of symmetry in a variety of shapes. Explore and Draw - Step 19: I can use my knowledge of symmetry to recognise non-symmetrical shapes. 2D Shapes - Step 18: I can identify regular and irregular polygons. 2D Shapes - Step 19: I can identify congruent shapes. Position and Direction – Step 14: I can use simple grid references. Amounts: Amounts of Distance - Step 11: I can measure distance accurately using metres and centimetres. Amounts of Distance - Step 12: I know my metre Learn It: 1m = 100cm. Amounts of Distance - Step 13: I know my millimetre Learn It: 1cm = 10mm. Amounts of Mass - Step 11: I can measure mass accurately using kilograms and grams. Amounts of Mass - Step 12: I know my mass Learn It: 1kg = 1000g. Amounts of Space - Step 11: I can measure capacity accurately using litres and millilitres. Amounts of Space - Step 12: I know my capacity Learn It: 1l = 1000ml. Amounts of Time - Step 20: I can time and record simple events.	Shape: 2D Shapes - Step 20: I can sort and describe 2D shapes using angles. 3D Shapes - Step 18: I can describe 3D shapes using measurements and types of angles. 3D Shapes - Step 19: I can make 3D shapes. Amounts: Amounts of Distance - Step 14: I can calculate in the context of measuring distance. Amounts of Distance - Step 15: I can change an amount of distance to make it 3, 4 or 5 times bigger. Amounts of Distance - Step 16: I know what the perimeter is. Amounts of Distance - Step 17: I can count to find a perimeter. Amounts of Distance - Step 18: I can measure to find a perimeter. Amounts of Mass - Step 13: I can calculate in the context of measuring mass. Amounts of Mass - Step 14: I can change an amount of mass to make it 3, 4 or 5 times bigger. Amounts of Money - Step 13: I can use all of my CLIC steps, so far, in the context of money (involving different units, e.g. 125p add £2). Amounts of Money - Step 14: I can record money spent and money saved. Amounts of Space - Step 13: I can calculate in the context of measuring capacity.

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Term	Autumn	Spring	Summer
	Fractions of a Whole - Step 12: I can find any simple fraction of any simple shape. Fractions of a Whole - Step 13: I can show any simple fraction. Fractions: Counting - Step 6: I can count in thirds. Fractions: Counting - Step 7: I can count in tenths. Fractions: INN - Step 4: I can add and subtract fractions with the same denominator (within 1). Fractions: Calculation - Step 1: I can see fractions as 'just another number'. Explaining Data: Line Graphs - Step 2: I can track my own Big Maths Beat That! scores with a line graph. Dangerous Maths No new learning steps introduced.	Amounts of Time - Step 21: I can time, record and compare simple events. Amounts of a turn - Step 11: I can recognise acute angles. Amounts of a turn - Step 12: I can recognise obtuse angles. Fractions: Fractions: Counting - Step 8: I can record my tenths with decimals too. Fractions: Counting - Step 9: I can compare and order fractions with the same denominator. Explaining Data: Diagrams and Tables - Step 17: I can explain pictograms with quarter pictures. Diagrams and Tables - Step 18: I can use a variety of Venn diagrams. Bar Charts - Step 4: I can draw a 1:1 scale bar chart. Bar Charts - Step 5: I can explain a 1:2 scale bar chart. Bar Charts - Step 6: I can draw a 1:2 scale bar chart. Dangerous Maths No new learning steps introduced.	Amounts of Space - Step 14: I can change an amount of water to make it 3, 4 or 5 times bigger. Amounts of Time - Step 22: I know how many days in each month, year and leap year. Amounts of Time: Telling the Time - Step 9: I can say how long until o'clock. Amounts of Time: Telling the Time - Step 10: I can read quarter past and quarter to on a digital clock. Amounts of Time: Telling the Time - Step 11: I can tell the time to the nearest minute. Amounts of Time: Telling the Time - Step 12: I can tell the time with Roman numerals. Amounts of Time: Telling the Time - Step 13: I understand am and pm. Amounts of Time: Telling the Time - Step 14: I can read a 24 hour clock. Amounts of Time: Telling the Time - Step 15: I can convert time from analogue to 24 hour clock. Amounts of a turn - Step 13: I can use acute and obtuse to accurately describe properties of shapes. Amounts of a turn - Step 14: I know that angles are used to sort shapes. Fractions: Fractions of a Whole - Step 14: I know any fraction equal to 1. Fractions of a Whole - Step 15: I can use equivalence to show any simple fraction. Fractions of a Set - Step 9: I can find fractions of amounts using my tables (1 part). Fractions of a Set - Step 10: I can find fractions of amounts using my tables (2 or more parts). Fractions: Counting - Step 10: I can place the fractions I know on a number line. Fractions: Counting - Step 11: I can compare and order fractions with different denominators. Fractions: Learn-its - Step 5: I know all of my x3, x4 and x8 tables as fractions Learn Its. Fractions: Calculation - Step 2: I can solve addition calculations with fractions. Fractions: Calculation - Step 3: I can solve subtraction calculations with fractions. Ratio - Step 3: I can increase measures by a given proportion. Explaining Data: Diagrams and Tables - Step 19: I can explain a table with several rows and columns. Diagrams and Tables - Step 20: I can read timetables. Bar Charts - Step 7: I can find how many in a subset. Bar Charts - Step 8: I can find how many altogether. Bar Charts - Step 9: I can compare subsets and explain what this tells us. Dangerous Maths Algebra - Step 4: I can use a two-step function machine. Prove it – Step 3: I can prove it! -3
Year 4	Shape: Explore and Draw - Step 20: I can find symmetry when shapes are in different orientations. 2D Shapes - Step 21: I know 'The Triangle Family'. Amounts: Amounts of Distance - Step 19: I can calculate to find the perimeter. Amounts of Distance - Step 20: I can find the perimeter in a variety of 2D shapes. Amounts of Distance - Step 21: I know my kilometre Learn It: 1km = 1000m. Amounts of Distance - Step 22: I can convert kilometres to metres. Amounts of Mass - Step 15: I can measure and record mass to the nearest 5g. Amounts of Mass - Step 16: I can convert kilograms to grams. Amounts of Money - Step 15:I can use decimal notation for money. Amounts of Space - Step 15: I understand that the area is the amount of space inside a 2D shape and I can count squares to find it. Amounts of Space - Step 16: I can find the area of rectangles by counting squares.	Shape: 2D Shapes - Step 22: I know 'The Quadrilateral Family'. Position and Direction – Step 15: I can provide coordinates for a given point. Position and Direction – Step 16: I can locate a point using given coordinates. Position and Direction – Step 17: I can use x and y coordinates to find points. Position and Direction – Step 18: I can explain the difference between grid references and coordinates. Position and Direction – Step 19: I can create my own first quadrant. Position and Direction – Step 20: I can create my own first quadrant and plot given points. Amounts: Amounts of Temperature - Step 8: I can use a range of thermometers to measure the temperature. Amounts of Temperature - Step 9: I can read negative temperatures. Amounts of Temperature - Step 10: I can find negative values for temperatures by counting. Amounts of Temperature - Step 11: I can understand and use degrees Celsius.	Shape: Explore and Draw - Step 21: I can recognise a line of symmetry even when it does not dissect the shape. Explore and Draw - Step 22: I can draw lines to the nearest millimetre. 2D Shapes - Step 23: I can sort polygons by side number and identify specific triangles and quadrilaterals. Position and Direction – Step 21: I can draw a simple 2D shape from given coordinates. Position and Direction – Step 22: I can describe the pattern of coordinates. Position and Direction – Step 23: I can move a point horizontally by a specified distance. Position and Direction – Step 24: I can move a point vertically by a specified distance. Amounts: Amounts of Distance - Step 23: I can measure and record distances to the nearest millimetre. Amounts of Distance - Step 24: I can express perimeter through algebra. Amounts of Space - Step 19: I can measure and record capacities to the nearest 100ml, and convert to litres. Amounts of Space - Step 20: I can convert litres to millilitres.

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Term	Autumn	Spring	Summer
	Amounts of Space - Step 17: I can compare the areas of different shapes by counting squares. Amounts of Space - Step 18: I can compare the areas of different shapes by accurately counting squares and part squares. Amounts of Time - Step 23: I can calculate the number of days. Amounts of Time - Step 24: I can convert periods of time. Amounts of Time: Telling the Time - Step 16: I can convert time from 24 hour clock to analogue. Amounts of a turn - Step 15: I can compare, order and sort angles. Fractions: Fractions of a Whole - Step 16: I can use equivalence to find any simple fraction. Fractions: INN - Step 5: I can add and subtract fractions with the same denominator (beyond 1). Fractions: Calculation - Step 4: I can use my calculation skills to add/subtract fractions that make a whole number. Explaining Data: No new learning steps introduced. Dangerous Maths : No new learning steps introduced.	Fractions: Fractions: Counting - Step 12: I can round numbers with 1dp. Fractions: Learn-its - Step 6: I know all of my tables as fractions Learn Its. Fractions: INN - Step 6: I can multiply unit fractions (within 1). Fractions: Calculation - Step 5: I can simplify fractions using my tables. Explaining Data: Diagrams and Tables - Step 21: I can calculate from timetables. Diagrams and Tables - Step 22: I can use two variables to read timetables. Diagrams and Tables - Step 23: I can use two variables to read timetables and then calculate. Bar Charts - Step 10: I can find how many more (or fewer) than a given value shown on the horizontal axis (with continuous data). Bar Charts - Step 11: I can draw a bar chart with continuous data. Dangerous Maths No new learning steps introduced.	Amounts of Time - Step 25: I can calculate time gaps within an hour (5 min). Amounts of Time - Step 26: I can calculate time gaps across an hour (5 min). Amounts of Time - Step 27: I can calculate time gaps across several hours (5 min). Amounts of Time: Telling the Time - Step 17: I can read Roman numerals to 100. Amounts of a turn - Step 16: I can use my angle knowledge to help sort polygons (triangles, quadrilaterals and regular/irregular). Fractions: Fractions of a Whole - Step 17: I can show a variety of equivalent fractions. Fractions of a Set - Step 11: I can reword my multiplication and division success as fractions (in context). Fractions of a Set - Step 12: I can use all tables Learn Its to find fractions of amounts. Fractions: Counting - Step 13: I can count in fifths. Fractions: Counting - Step 14: I can count in fractions of any denominator. Fractions: Counting - Step 15: I can count in hundredths. Fractions: Counting - Step 16: I can record my hundredths with decimals too. Fractions: Learn-its - Step 7: I know 1/2 = 0.5, 1/10 = 0.1, 1/4 = 0.25, 3/4 = 0.75, 1/100 = 0.01. Fractions: INN - Step 7: I can multiply unit fractions (beyond 1). Ratio - Step 4: I can investigate increasing shapes by a given proportion. Explaining Data: Diagrams and Tables - Step 24: I can explain data from a wide variety of representations. Dangerous Maths Algebra - Step 5: I can describe the function and use a given output to find an input. Algebra - Step 6: I can describe algebraically how to always find the perimeter of a rectangle. Algebra - Step 7: I can choose my own symbol to represent an unknown number. Algebra - Step 8: I can use multi step function machines. Prove it – Step 4: I can prove it! -4
Year 5	Shape: Explore and Draw - Step 23: I can mark parallel lines accurately. Explore and Draw - Step 24: I can recognise and draw diagonal lines. Amounts: Amounts of Distance - Step 25: I can find the perimeter of compound shapes. Amounts of Distance - Step 26: I can use the total perimeter to find missing side lengths. Amounts of Mass - Step 19: I can convert kilograms and grams in both directions and to 3dp, and use in context. Amounts of Time: Telling the Time - Step 18: I can recognise years written in Roman numerals. Amounts of a turn - Step 17: I can recognise reflex angles. Amounts of a turn - Step 18: I know that we need a unit of measure to describe the amount of turn… and that we use degrees! Amounts of a turn - Step 19: I know my right angle Learn Its: 90º = 1 right angle, 180º = half turn, 270º = three quarter turn and 360º = whole turn. Amounts of a turn - Step 20: I can define an acute, obtuse and reflex angle using degrees. Amounts of a turn - Step 21: I can use my right angle Learn Its to find simple missing angles: 90º = 1 right angle, 180º = half turn, 270º = three quarter turn and 360º = whole turn. Fractions: Fractions: Counting - Step 17: I can round numbers with 2dp. Fractions: Learn-its - Step 8: I know 1/5 = 0.2, 2/5 = 0.4, 3/5 = 0.6, 4/5 = 0.8. Fractions: Learn-its - Step 9: I know 1/3 = 0.33333 recurring. Fractions: Calculation - Step 6: I can simplify fractions ready for ordering... and order them.	Shape: 3D Shapes - Step 20: I can recognise a 'simple' net of a cube and use it to construct a cube. 3D Shapes - Step 21: I can recognise different nets of cubes. Position and Direction – Step 25: I can move a point horizontally and vertically. Position and Direction – Step 26: I can move a shape in one direction. Position and Direction – Step 27: I can move a shape in both directions. Amounts: Amounts of Mass - Step 20: I can draw and interpret a conversion graph to change from a metric measure to an imperial measure, e.g. pounds and kilograms. Amounts of a turn - Step 22: I can accurately estimate acute, obtuse and reflex angles. Amounts of a turn - Step 23: I can use a protractor to draw a right angle. Amounts of a turn - Step 24: I can use a protractor to draw a specified acute angle to the nearest 5º. Fractions: Fractions of a Set - Step 13: I can go beyond my tables to find fractions of an amount. Fractions: Counting - Step 18: I can identify fractions less than 1, more than 1 or equal to 1. Fractions: Calculation - Step 8: I can find equivalent fractions. Fractions: Calculation - Step 9: I can find equivalent fractions ready for ordering... and order them. Fractions: Calculation - Step 10: I can find equivalent fractions ready for calculating... and calculate with them. Fractions: Calculation - Step 11 :I can convert mixed numbers to improper fractions using all my tables Learn Its.	Shape: 2D Shapes - Step 24: I can sort regular and irregular polygons by reasoning about their properties. 2D Shapes - Step 25: I can find missing side lengths using shape. 3D Shapes - Step 22: I can make a range of familiar 3D shapes given their net. 3D Shapes - Step 23: I can match a net to a 3D shape, i.e. I know if it's the right net. Position and Direction – Step 28: I can reflect a shape across a vertical line, then a horizontal line. Position and Direction – Step 29: I can reflect and translate shapes. Amounts: Amounts of Distance - Step 27: I can convert kilometres and metres in both directions and to 3dp. Amounts of Distance - Step 28: I know about imperial units for distance. Amounts of Mass - Step 17: I can convert kilograms and grams in both directions and to 3dp. Amounts of Mass - Step 18: I know about imperial units for mass. Amounts of Money - Step 16: I can use all of CLIC in the context of money. Amounts of Money - Step 17: I can manage a simple budget. Amounts of Space - Step 21: I understand that to measure area we need to count standard sized squares and that this has special notation. Amounts of Space - Step 22: I can calculate areas using CLIC. Amounts of Space - Step 23: I can convert litres and millilitres in both directions and to 3dp. Amounts of Space - Step 24: I know about imperial units for capacity. Amounts of Space - Step 25: I understand that to measure volume we need to count standard sized cubes and that this has special notation.

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Big Maths SAFE Long Term Planning Overview

Steps shown in each term indicate where a new step is introduced. Previous steps recapped according to Big Maths online planning tool.

Term	Autumn	Spring	Summer
	Fractions: Calculation - Step 7: I can simplify fractions ready for calculating... and calculate with them. Explaining Data: No new learning steps introduced. Dangerous Maths Algebra - Step 9: I can find a missing number by calculating first. Algebra - Step 10: I can use trial and improvement to find two missing numbers.	Fractions: Calculation - Step 12: I can convert improper fractions to mixed numbers using all my tables Learn Its. Ratio - Step 5: I can decrease measures by a given proportion. Ratio - Step 6: I can use my Coin Card to find a missing value in one step. Ratio - Step 7: I can use my Coin Card to find missing values with simple rates. Explaining Data: Line Graphs - Step 3: I can explain a range of simple line graphs. Line Graphs - Step 4: I can use coordinates to explain line graphs. Line Graphs - Step 5: I can use a line graph to explain a simple ratio. Line Graphs - Step 6: I can use a line graph to answer a range of information questions. Dangerous Maths Pattern Spotting - Step 10: I can record the gaps between numbers in a number sequence. Pattern Spotting - Step 11: I can spot a steady gap. Pattern Spotting - Step 12: I can spot a steady gap and use it to extend the sequence. Pattern Spotting - Step 13: I can spot a steady gap and use it to find missing numbers. Pattern Spotting - Step 14: I can spot a steady gap and use it to find 2 consecutive missing numbers. Algebra - Step 11: I can use my tables Learn Its to find the value of missing numbers represented by letters.	Amounts of Space - Step 26: I can estimate volume and capacity Amounts of Temperature - Step 12: I can find temperature differences (positive numbers). Amounts of Temperature - Step 13: I can find temperature differences (negative numbers). Amounts of Temperature - Step 14: I can find temperature differences between a positive and a negative number. Amounts of Time - Step 28: I can calculate time gaps within an hour (1 min). Amounts of Time - Step 29: I can calculate time gaps across an hour (1 min). Amounts of Time - Step 30: I can calculate time gaps across several hours (1 min). Amounts of Time - Step 31: I can convert times and then calculate time gaps. Amounts of a turn - Step 25: I can use a protractor to measure a specified acute angle to the nearest 2º. Amounts of a turn - Step 26: I can use a protractor to draw a specified obtuse angle to the nearest 2º. Amounts of a turn - Step 27: I can use a protractor to measure a specified obtuse angle to the nearest 2º. Amounts of a turn - Step 28: I can use a protractor to draw a specified reflex angle to the nearest 2º. Amounts of a turn - Step 29: I can use a protractor to measure a specified reflex angle to the nearest 2º. Amounts of a turn - Step 30: I can measure the 4 internal angles of quadrilaterals and explore the sum. Fractions: Fractions: Counting - Step 19: I can count in thousandths. Fractions: Counting - Step 20: I know that counting in hundredths is counting percentages. Fractions: Learn-its - Step 10: I know all of my percentage Learn Its. Fractions: INN - Step 8: I can use Smile Multiplication for fractions. Fractions: Calculation - Step 13: I can convert fractions from/to mixed numbers ready for ordering... and order them. Fractions: Calculation - Step 14: I can convert fractions from/to mixed numbers ready for calculating... and calculate with them. Fractions: Calculation - Step 15: I can multiply proper fractions by whole numbers. Fractions: Calculation - Step 16: I can multiply mixed numbers by whole numbers. Fractions: Calculation - Step 17: I can see that percentages are proportions. Percentages - Step 1: I know that counting in hundredths is counting percentages! Percentages - Step 2: I can see that percentages are proportions. Percentages - Step 3: I know all of my percentage Learn Its. Ratio - Step 8: I can use my Coin Card to find a missing value in two steps. Explaining Data: Diagrams and Tables - Step 25: I can read, use and calculate with a wide range of tables and timetables. Probability - Step 1: I can describe familiar events using chance and likelihood. Probability - Step 2: I can compare the likelihood of 2 familiar events. Probability - Step 3: I understand that probability is about what might happen. Probability - Step 4: I know when something is impossible or certain. Probability - Step 5: I can see when 2 events are equally likely. Probability - Step 6: I can recognise when an event has an even chance. Probability - Step 7: I can show an even chance using numbers. Dangerous Maths Pattern Spotting - Step 15: I can predict other numbers in the sequence, away from the numbers given. Pattern Spotting - Step 16: I can spot patterns in sequences with decimals/ fractions/negative numbers.

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Big Maths SAFE Long Term Planning Overview

Steps shown in each term indicate where a new step is introduced. Previous steps recapped according to Big Maths online planning tool.

Term	Autumn	Spring	Summer
			Pattern Spotting - Step 17: I can spot patterns where the gap is a fraction. Algebra - Step 12: I can solve equations with brackets. Algebra - Step 13: I can describe algebraically how to always solve 1d x 2d. Algebra - Step 14: I can choose my own letter to represent an unknown number that is being multiplied. Prove it – Step 5: I can prove it! - 5
Year 6	Shape: Explore and Draw - Step 25: I can use a pair of compasses to draw a circle. Explore and Draw - Step 26: I can draw a circle with a given radius. Explore and Draw - Step 27: I can draw a circle with a given diameter. 2D Shapes - Step 26: I know the relationships between radius, diameter and circumference in a circle. 3D Shapes - Step 24: I can tell if a net makes a shape. Amounts: Amounts of Distance - Step 29: I can convert kilometres and metres in both directions and to 3dp, and use in context. Amounts of Distance - Step 30: I can identify and measure the diameter of a circle. Amounts of Distance - Step 31: I can identify and measure the radius of a circle. Amounts of Distance - Step 32: I know what a circumference is and how it relates to diameter. Amounts of Distance - Step 33: I can find the circumference by knowing the radius or diameter. Amounts of Space - Step 27: I can convert litres and millilitres in both directions and to 3dp, and use in context. Amounts of Space - Step 28: I can calculate volume using CLIC. Amounts of a turn - Step 31: I can measure the three angles of a selection of triangles, and explore the sum. Amounts of a turn - Step 32: I know 180º = sum of interior angles in every triangle (and can therefore find missing angles). Amounts of a turn - Step 33: I know 360º = sum of interior angles in every quadrilateral and every circle (and can therefore find missing angles). Fractions: Fractions of a Set - Step 14: I can tell you the total if I know the value of a fraction. Fractions: Calculation - Step 18: I can use common factors to simplify. Fractions: Calculation - Step 19: I can find a new common denominator. Fractions: Calculation - Step 20: I can multiply one fraction by another. Percentages - Step 4: I can write my Full Coin Card from only knowing 100 lots. Percentages - Step 5: I can find percentages of convenient numbers. Percentages - Step 6: I can find percentages of convenient numbers and use them to compare proportions. Ratio - Step 9: I can find the scale factor when comparing two corresponding amounts. Ratio - Step 10: I can use ratio notation to record my findings. Ratio - Step 11: I can maintain a ratio through differing totals. Explaining Data: Averages - Step 1: I can tell you the lowest value from a set of data. Averages - Step 2: I can tell you the highest value from a set of data. Averages - Step 3: I can tell you the difference between the highest value and the lowest value. Averages - Step 4: I can tell you the difference between the highest value and the lowest value. Averages - Step 5: I know when and why a range is useful to explain data. Averages - Step 6: I can find the mean value for a set of data. Averages - Step 7: I know when and why the mean is useful to explain data.	Shape: Explore and Draw - Step 28: I can accurately draw a wide range of 2D shapes. Explore and Draw - Step 29: I can draw a sector of a circle (with a given diameter and angle). Explore and Draw - Step 30: I can construct a triangle given two sides and the included angle, using a ruler and protractor. 2D Shapes - Step 27: I can combine all of my 2D shape knowledge and understanding to solve challenges. 2D Shapes - Step 28: I know that if two 2D shapes are congruent, the corresponding sides and angles are equal. 3D Shapes - Step 25: I can accurately draw nets for cubes. 3D Shapes - Step 26: I can accurately draw the nets for a range of familiar 3D shapes. 3D Shapes - Step 27: I can compare and classify a wide range of 3D shapes using mathematical detail. Position and Direction – Step 30: I can plot points in the second quadrant. Position and Direction – Step 31: I can plot points in the third and fourth quadrant. Position and Direction – Step 32: I can plot shapes that overlap into different quadrants. Position and Direction – Step 33: I can reflect shapes in the y axis. Position and Direction – Step 34: I can reflect shapes in the x axis. Position and Direction – Step 35: I can find missing coordinates for a variety of shapes (by drawing the shape to help). Position and Direction – Step 36: I can find missing coordinates for a variety of shapes (without drawing the shape). Amounts: Amounts of Distance - Step 34: I can find distances from a given speed and a range of times. Amounts of Distance - Step 35: I can find time from a given speed and a range of distances. Amounts of Money - Step 18: I can calculate profit and loss. Amounts of Money - Step 19: I can find 'best value for money'. Amounts of Space - Step 29: I can find different shapes (different perimeters) with the same area. Amounts of Space - Step 30: I can use a formula to find the area of triangles: 1/2(h x b). Amounts of Space - Step 31: I can use a formula to find the area of parallelograms: h x b. Amounts of Temperature - Step 15: I can increase a temperature by a given amount (including through zero). Amounts of Temperature - Step 16: I can decrease a temperature by a given amount (including through zero). Amounts of Time - Step 32: I understand a decade, century, BC/AD, 52 weeks in a year. Amounts of a turn - Step 34: I can use all of my angle knowledge to find missing angles in lots of different contexts. Amounts of a turn - Step 35: I can find missing angles using multi-steps of deduction. Fractions: Fractions of a Whole - Step 18: I can find a given fraction of a shape that is pre-divided into unequal pieces. Fractions of a Whole - Step 19: I can find the fraction of a shape that is shaded (and unshaded) when given the ratio of shaded : unshaded.	Shape: No new learning steps introduced. Amounts: No new learning steps introduced. Fractions: No new learning steps introduced. Explaining Data: No new learning steps introduced. Dangerous Maths No new learning steps introduced.

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Big Maths SAFE Long Term Planning Overview

Steps shown in each term indicate where a new step is introduced. Previous steps recapped according to Big Maths online planning tool.

Term	Autumn	Spring	Summer
	Line Graphs - Step 7: I can use line graphs to show relationships between two variables in other subjects. Line Graphs - Step 8: I can use a line graph to find missing values. Pie Charts - Step 1: I can explain simple pie charts using my knowledge of fractions of a circle. Pie Charts - Step 2: I can find missing values, percentages or proportions. Pie Charts - Step 3: I can use missing percentages or proportions to provide missing values. Pie Charts - Step 4: I can find missing angles, given the proportional value and the total value. Pie Charts - Step 5: I can find missing proportional values given the angle and the total value. Dangerous Maths Algebra - Step 15: I can use algebra to show multiplication as repeated addition. Algebra - Step 16: I can use Pim to simplify expressions.	Fractions: Calculation - Step 21: I can convert, simplify and find equivalent fractions ready for ordering... and order them. Fractions: Calculation - Step 22: I can convert, simplify and find equivalent fractions ready for calculating... and calculate with them. Fractions: Calculation - Step 23: I can divide proper fractions by whole numbers. Fractions: Calculation - Step 24: I can turn fractions into decimals (not recurring). Fractions: Calculation - Step 25: I can turn fractions into decimals (recurring). Fractions: Calculation - Step 26: I can divide a whole number by any proper fraction. Fractions: Calculation - Step 27: I can divide one proper fraction by another. Percentages - Step 7: I can write out my Pie Chart Coin Card. Percentages - Step 8: I can find percentages of any number. Percentages - Step 9: I can find any percentage of any number using a calculator. Percentages - Step 10: I can find 100% if given a convenient percentage. Percentages - Step 11: I can find a new value if given a percentage increase. Percentages - Step 12: I can find a new value if given a percentage decrease. Percentages - Step 13: I can use percentage to compare best value. Ratio - Step 12: I can use my Coin Card for a variety of conversions. Ratio - Step 13: I can use my Coin Card for conversion, and graph the relationship. Explaining Data: Bar Charts - Step 12: I can find how many between two given values shown on the horizontal axis (with continuous data). Averages - Step 8: I can find the mode value for a set of data. Averages - Step 9: I know when and why the mode is useful to explain data. Averages - Step 10: I can find the median value for a set of data. Averages - Step 11: I know when and why the median is useful to explain data. Averages - Step 12: I can compare two sets of data and explain the features of each. Pie Charts - Step 6: I can write out my Pie Chart Coin Card. Pie Charts - Step 7: I can use my Pie Chart Coin Card to find angles from percentages. Pie Charts - Step 8: I can use my Pie Chart Coin Card to find percentages from angles. Pie Charts - Step 9: I can convert proportions to percentages, and then to angles. Pie Charts - Step 10: I can find missing angles, given the proportional value and the total value… and draw the pie chart! Pie Charts - Step 11: I can use my Pie Chart Coin Card to find angles from percentages… and draw the pie chart! Probability - Step 8: I can use numbers to describe the likelihood of an event: Probability - Step 9: I can show probabilities as fractions and explain what this means. Probability - Step 10: I can say which probability is most likely by comparing fractions with the same denominator. Probability - Step 11: I can say which probability is most likely by comparing fractions with different denominators. Probability - Step 12: I can show probabilities as a decimal number between zero and one. Probability - Step 13: I can show probabilities by converting to percentages. Probability - Step 14: I can show relative probabilities by converting to percentages.	

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Big Maths SAFE Long Term Planning Overview

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Term	Autumn	Spring	Summer
		Probability - Step 15: I can show relative probabilities by converting to percentages (and then angles) and representing these with a pie chart. Dangerous Maths Pattern Spotting - Step 18: I can spot patterns where the gap itself is increasing by 1. Pattern Spotting - Step 19: I can spot patterns where the gap itself is increasing or decreasing by a fixed amount. Pattern Spotting - Step 20: I can spot patterns where the gap itself is increasing or decreasing by a non-fixed amount. Algebra - Step 17: I can express functions using algebraic statements. Algebra - Step 18: I can use my understanding of the order of operations to carry out calculations. Algebra - Step 19: I can solve one step equations. Algebra - Step 20: I can find two unknown numbers in an algebraic equation. Algebra - Step 21: I can find more than one pair of numbers to satisfy an equation. Algebra - Step 22: I can use formulae and algebraic expressions in many areas of my maths and science. Prove it – Step 6: I can prove it! – 6	