St.Patrick's RC Primary School

Maths Curriculum Overview

Year group	Autumn	Spring	Summer
Year 1	**Number and place value** Y1.NPV.1 count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number Y1.NPV.2 count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens Y1.NPV.3 given a number, identify one more and one less Y1.NPV.4 identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least Y1.NPV.5 read and write numbers from 1 to 20 in numerals and words **Number Addition and Subtraction** Y1.NAS.1 read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs	**Number and place value** Y1.NPV.1 count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number Y1.NPV.2 count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens Y1.NPV.3 given a number, identify one more and one less Y1.NPV.4 identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least **Number Addition and Subtraction** Y1.NAS.1 read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs	**Number and place value** Y1.NPV.1 count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number Y1.NPV.2 count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens Y1.NPV.3 given a number, identify one more and one less Y1.NPV.4 identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least Y1.NPV.5 read and write numbers from 1 to 20 in numerals and words **Number Addition and Subtraction** Y1.NAS.1 read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs Y1.NAS.2 represent and use number bonds and related subtraction facts within 20

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	Y1.NAS.2 represent and use number bonds and related subtraction facts within 20 Y1.NAS.3 add and subtract one-digit and two-digit numbers to 20, including zero Y1.NAS.4 solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = □ – 9 **Measurement** Y1.M.1 compare, describe and solve practical problems for: • lengths and heights [for example, long/short, longer/shorter, tall/short, double/half] • mass/weight [for example, heavy/light, heavier than, lighter than] • capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] time [for example, quicker, slower, earlier, later	Y1.NAS.2 represent and use number bonds and related subtraction facts within 20 Y1.NAS.3 add and subtract one-digit and two-digit numbers to 20, including zero Y1.NAS.4 solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = □ – 9 **Number multiplication and division** Y1.NMD.1 solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher **Number Fractions** Y1.NF.1 recognise, find and name a half as one of two equal parts of an object, shape or quantity Y1.NF.2 recognise, find and name a quarter as one of four equal parts of an object, shape or quantity	Y1.NAS.3 add and subtract one-digit and two-digit numbers to 20, including zero Y1.NAS.4 solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = □ – 9 **Number multiplication and division** Y1.NMD.1 solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher **Number Fractions** Y1.NF.1 recognise, find and name a half as one of two equal parts of an object, shape or quantity Y1.NF.2 recognise, find and name a quarter as one of four equal parts of an object, shape or quantity **Measurement** Y1.M.1 compare, describe and solve practical problems for:

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	Y1.M.2 measure and begin to record the following: • lengths and heights • mass/weight • capacity and volume time (hours, minutes, seconds) Y1.M.3 recognise and know the value of different denominations of coins and notes **Geometry Properties of Shape** Y1.GPS.1 recognise and name common 2-D and 3-D shapes, including: • 2-D shapes [for example, rectangles (including squares), circles and triangles] 3-D shapes [for example, cuboids (including cubes), pyramids and spheres] **Geometry Position and direction** Y1.GPD.1 describe position, direction and movement, including whole, half, quarter and three-quarter turns	**Measurement** Y1.M.1 compare, describe and solve practical problems for: • lengths and heights [for example, long/short, longer/shorter, tall/short, double/half] • mass/weight [for example, heavy/light, heavier than, lighter than] • capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] time [for example, quicker, slower, earlier, later Y1.M.2 measure and begin to record the following: • lengths and heights • mass/weight • capacity and volume time (hours, minutes, seconds) Y1.M.4 sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]	• lengths and heights [for example, long/short, longer/shorter, tall/short, double/half] • mass/weight [for example, heavy/light, heavier than, lighter than] • capacity and volume [for example, full/empty, more than, less than, half, half full, quarter] time [for example, quicker, slower, earlier, later Y1.M.2 measure and begin to record the following: • lengths and heights • mass/weight • capacity and volume time (hours, minutes, seconds) Y1.M.3 recognise and know the value of different denominations of coins and notes Y1.M.5 recognise and use language relating to dates, including days of the week, weeks, months and years Y1.M.6 tell the time to the hour and half past the hour and draw the hands on a clock face to show these times

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		Y1.M.5 recognise and use language relating to dates, including days of the week, weeks, months and years Y1.M.6 tell the time to the hour and half past the hour and draw the hands on a clock face to show these times **Geometry Properties of Shape** Y1.GPS.1 recognise and name common 2-D and 3-D shapes, including: • 2-D shapes [for example, rectangles (including squares), circles and triangles] 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]	**Geometry Properties of Shape** Y1.GPS.1 recognise and name common 2-D and 3-D shapes, including: • 2-D shapes [for example, rectangles (including squares), circles and triangles] 3-D shapes [for example, cuboids (including cubes), pyramids and spheres]
Year 2	**Number and place value** Y2.NPV.1 count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward Y2.NPV.2 recognise the place value of each digit in a two-digit number (tens, ones) Y2.NPV.3 identify, represent and estimate numbers using different	**Number and place value** Y2.NPV.1 count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward Y2.NPV.2 recognise the place value of each digit in a two-digit number (tens, ones) Y2.NPV.3 identify, represent and estimate numbers using different	**Number and place value** Y2.NPV.1 count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward Y2.NPV.2 recognise the place value of each digit in a two-digit number (tens, ones) Y2.NPV.3 identify, represent and estimate numbers using different representations, including the number line

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	representations, including the number line Y2.NPV.4 compare and order numbers from 0 up to 100; use <, >and = signs Y2.NPV.5 read and write numbers to at least 100 in numerals and in words Y2.NPV.6 use place value and number facts to solve problems **Number addition and subtraction** Y2.NAS.1 solve problems with addition and subtraction: • using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods Y2.NAS.2 recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Y2.NAS.3 add and subtract numbers using concrete objects, pictorial representations, and mentally, including: • a two-digit number and ones	representations, including the number line Y2.NPV.4 compare and order numbers from 0 up to 100; use <, >and = signs Y2.NPV.5 read and write numbers to at least 100 in numerals and in words Y2.NPV.6 use place value and number facts to solve problems **Number addition and subtraction** Y2.NAS.1 solve problems with addition and subtraction: • using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods Y2.NAS.2 recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Y2.NAS.3 add and subtract numbers using concrete objects, pictorial representations, and mentally, including: • a two-digit number and ones	Y2.NPV.4 compare and order numbers from 0 up to 100; use <, >and = signs Y2.NPV.5 read and write numbers to at least 100 in numerals and in words Y2.NPV.6 use place value and number facts to solve problems **Number addition and subtraction** Y2.NAS.1 solve problems with addition and subtraction: • using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods Y2.NAS.2 recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Y2.NAS.3 add and subtract numbers using concrete objects, pictorial representations, and mentally, including: • a two-digit number and ones • a two-digit number and tens • two two-digit numbers adding three one-digit numbers

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	• a two-digit number and tens • two two-digit numbers adding three one-digit numbers Y2.NAS.4 show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot Y2.NAS.5 recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. **Number multiplication and division** Y2.NMD.1 recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers Y2.NMD.2 calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs Y2.NMD.4 solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and	• a two-digit number and tens • two two-digit numbers adding three one-digit numbers Y2.NAS.4 show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot Y2.NAS.5 recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. **Number multiplication and division** Y2.NMD.1 recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers Y2.NMD.2 calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs Y2.NMD.3 show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot	Y2.NAS.4 show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot Y2.NAS.5 recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. **Number multiplication and division** Y2.NMD.1 recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers Y2.NMD.2 calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs Y2.NMD.3 show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot Y2.NMD.4 solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods,

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	division facts, including problems in contexts **Measurement** Y2.M.1 choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels Y2.M.2 compare and order lengths, mass, volume/capacity and record the results using >, <and = Y2.M.3 recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value Y2.M.4 find different combinations of coins that equal the same amounts of money Y2.M.7 tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times **Geometry Property of shapes**	Y2.NMD.4 solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts **Number fractions** Y2.NF.1 recognise, find, name and write fractions ⅓, ¼, 2/4 and ¾ of a length, shape, set of objects or quantity Y2.NF.2 write simple fractions for example, ½ of 6 = 3 and recognise the equivalence of 2/4 and ½ **Measurement** Y2.M.3 recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value Y2.M.5 solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change Y2.M.6 compare and sequence intervals of time	and multiplication and division facts, including problems in contexts **Number fractions** Y2.NF.1 recognise, find, name and write fractions ⅓, ¼, 2/4 and ¾ of a length, shape, set of objects or quantity Y2.NF.2 write simple fractions for example, ½ of 6 = 3 and recognise the equivalence of 2/4 and ½ **Measurement** Y2.M.1 choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels Y2.M.2 compare and order lengths, mass, volume/capacity and record the results using >, <and = Y2.M.3 recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value

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	Y2.GPS.1 identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line Y2.GPS.4 compare and sort common 2-D and 3-D shapes and everyday objects **Geometry position and direction** Y2.GPD.2 use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise) **Statistics** Y2.S.2 ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity	Y2.M.7 tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times Y2.M.8 know the number of minutes in an hour and the number of hours in a day **Geometry Property of shapes** Y2.GPS.2 identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces Y2.GPS.3 identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid] **Geometry position and direction** Y2.GPD.1 order and arrange combinations of mathematical objects in patterns and sequences Y2.GPD.2 use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half	Y2.M.4 find different combinations of coins that equal the same amounts of money Y2.M.6 compare and sequence intervals of time Y2.M.7 tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times Y2.M.8 know the number of minutes in an hour and the number of hours in a day **Geometry position and direction** Y2.GPD.2 use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise) **Statistics** Y2.S.1 interpret and construct simple pictograms, tally charts, block diagrams and simple tables Y2.S.3 ask and answer questions about totalling and comparing categorical data

		and three-quarter turns (clockwise and anti-clockwise) **Statistics** Y2.S.1 interpret and construct simple pictograms, tally charts, block diagrams and simple tables Y2.S.2 ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity Y2.S.3 ask and answer questions about totalling and comparing categorical data	
Year 3	**Number and Place Value** Y3.NPV.1 count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number Y3.NPV.2 recognise the place value of each digit in a three-digit number (hundreds, tens, ones) Y3.NPV.3 compare and order numbers up to 1000 Y3.NPV.4 identify, represent and estimate numbers using different representations	**Number and Place Value** Y3.NPV.1 count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number Y3.NPV.2 recognise the place value of each digit in a three-digit number (hundreds, tens, ones) Y3.NPV.3 compare and order numbers up to 1000 Y3.NPV.4 identify, represent and estimate numbers using different representations	**Number and Place Value** Y3.NPV.1 count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number Y3.NPV.2 recognise the place value of each digit in a three-digit number (hundreds, tens, ones) Y3.NPV.3 compare and order numbers up to 1000 Y3.NPV.4 identify, represent and estimate numbers using different representations

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	Number Addition and subtraction Y3.NAS.1 add and subtract numbers mentally, including: • a three-digit number and ones • a three-digit number and tens a three-digit number and hundreds Y3.NAS.4 solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction **Number multiplication and division** Y3.NMD.1 recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables Y3.NMD.2 write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods Y3.NMD.3 solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and	Y3.NPV.5 read and write numbers up to 1000 in numerals and in words Y3.NPV.6 solve number problems and practical problems involving these ideas **Number Addition and subtraction** Y3.NAS.1 add and subtract numbers mentally, including: • a three-digit number and ones • a three-digit number and tens a three-digit number and hundreds Y3.NAS.2 add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction Y3.NAS.4 solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction **Number multiplication and division** Y3.NMD.1 recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables	**Number Addition and subtraction** Y3.NAS.1 add and subtract numbers mentally, including: • a three-digit number and ones • a three-digit number and tens a three-digit number and hundreds Y3.NAS.2 add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction Y3.NAS.3 estimate the answer to a calculation and use inverse operations to check answers Y3.NAS.4 solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction **Number multiplication and division** Y3.NMD.1 recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables Y3.NMD.2 write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using

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	correspondence problems in which n objects are connected to m objects **Number Fractions** Y3.NF.2 recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators Y3.NF.3 recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators Y3.NF.6 compare and order unit fractions, and fractions with the same denominators **Measurement** Y3.M.1 measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) Y3.M.3 add and subtract amounts of money to give change, using both £ and p in practical contexts Y3.M.4 tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks	Y3.NMD.2 write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods Y3.NMD.3 solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects **Number Fractions** Y3.NF.1 count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 Y3.NF.2 recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators Y3.NF.3 recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators	mental and progressing to formal written methods Y3.NMD.3 solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects **Number Fractions** Y3.NF.1 count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 Y3.NF.2 recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators Y3.NF.4 recognise and show, using diagrams, equivalent fractions with small denominators Y3.NF.5 add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7] Y3.NF.6 compare and order unit fractions, and fractions with the same denominators

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	Y3.M.5 estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight Y3.M.6 know the number of seconds in a minute and the number of days in each month, year and leap year Y3.M.7 compare durations of events [for example to calculate the time taken by particular events or tasks] **Geometry Properties of Shapes** Y3.GPS.1 draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them	Y3.NF.4 recognise and show, using diagrams, equivalent fractions with small denominators Y3.NF.5 add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7] Y3.NF.6 compare and order unit fractions, and fractions with the same denominators **Measurement** Y3.M.2 measure the perimeter of simple 2-D shapes Y3.M.3 add and subtract amounts of money to give change, using both £ and p in practical contexts Y3.M.4 tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks Y3.M.7 compare durations of events [for example to calculate the time taken by particular events or tasks] **Geometry Properties of Shapes**	**Measurement** Y3.M.1 measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) Y3.M.2 measure the perimeter of simple 2-D shapes Y3.M.4 tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks Y3.M.3 add and subtract amounts of money to give change, using both £ and p in practical contexts Y3.M.5 estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight **Geometry Properties of Shapes** Y3.GPS.2 recognise angles as a property of shape or a description of a turn Y3.GPS.4 identify horizontal and vertical lines and pairs of perpendicular and parallel lines

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		Y3.GPS.1 draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them Y3.GPS.2 recognise angles as a property of shape or a description of a turn Y3.GPS.3 identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle Y3.GPS.4 identify horizontal and vertical lines and pairs of perpendicular and parallel lines	**Statistics** Y3.S.1 interpret and present data using bar charts, pictograms and tables Y3.S.2 solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables
Year 4	**Number and place value** Y4.NPV.1 count in multiples of 6, 7, 9, 25 and 1000 Y4.NPV.4 recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) Y4.NPV.5 order and compare numbers beyond 1000	**Number and place value** Y4.NPV.1 count in multiples of 6, 7, 9, 25 and 1000 Y4.NPV.2 find 1000 more or less than a given number Y4.NPV.4 recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)	**Number and place value** Y4.NPV.1 count in multiples of 6, 7, 9, 25 and 1000 Y4.NPV.2 find 1000 more or less than a given number Y4.NPV.3 count backwards through zero to include negative numbers

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	Y4.NPV.6 identify, represent and estimate numbers using different representations Y4.NPV.7 round any number to the nearest 10, 100 or 1000 **Number addition and subtraction** Y4.NAS.1 add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate Y4.NAS.2 estimate and use inverse operations to check answers to a calculation Y4.NAS.3 solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why **Number multiplication and division** Y4.NMD.1 recall multiplication and division facts for multiplication tables up to 12 × 12 Y4.NMD.2 use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0	Y4.NPV.5 order and compare numbers beyond 1000 Y4.NPV.6 identify, represent and estimate numbers using different representations Y4.NPV.7 round any number to the nearest 10, 100 or 1000 Y4.NPV.8 solve number and practical problems that involve all of the above and with increasingly large positive numbers Y4.NPV.9 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 **Number addition and subtraction** Y4.NAS.1 add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate Y4.NAS.2 estimate and use inverse operations to check answers to a calculation Y4.NAS.3 solve addition and subtraction two-step problems in	Y4.NPV.4 recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones) Y4.NPV.5 order and compare numbers beyond 1000 Y4.NPV.6 identify, represent and estimate numbers using different representations Y4.NPV.7 round any number to the nearest 10, 100 or 1000 Y4.NPV.8 solve number and practical problems that involve all of the above and with increasingly large positive numbers **Number addition and subtraction** Y4.NAS.1 add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate Y4.NAS.2 estimate and use inverse operations to check answers to a calculation Y4.NAS.3 solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why

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	and 1; dividing by 1; multiplying together three numbers Y4.NMD.4 multiply two-digit and three-digit numbers by a one-digit number using formal written layout Y4.NMD.5 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 m objects **Number Fractions (including decimals)** Y4.NF.1 recognise and show, using diagrams, families of common equivalent fractions Y4.NF.3 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 Y4.NF.5 recognise and write decimal equivalents of any number of tenths or hundredths	contexts, deciding which operations and methods to use and why **Number multiplication and division** Y4.NMD.1 recall multiplication and division facts for multiplication tables up to 12 × 12 Y4.NMD.2 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 Y4.NMD.3 recognise and use factor pairs and commutativity in mental calculations Y4.NMD.4 multiply two-digit and three-digit numbers by a one-digit number using formal written layout **Number Fractions (including decimals)** Y4.NF.1 recognise and show, using diagrams, families of common equivalent fractions Y4.NF.2 count up and down in hundredths; recognise that hundredths arise when dividing an	**Number multiplication and division** Y4.NMD.1 recall multiplication and division facts for multiplication tables up to 12 × 12 Y4.NMD.2 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 Y4.NMD.3 recognise and use factor pairs and commutativity in mental calculations Y4.NMD.4 multiply two-digit and three-digit numbers by a one-digit number using formal written layout **Number Fractions (including decimals)** Y4.NF.1 recognise and show, using diagrams, families of common equivalent fractions Y4.NF.2 count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten Y4.NF.3 solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide

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	Measurement Y4.M.1 Convert between different units of measure [for example, kilometre to metre; hour to minute] Y4.M.2 measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres Y4.M.4 estimate, compare and calculate different measures, including money in pounds and pence Y4.M.5 read, write and convert time between analogue and digital 12- and 24-hour clocks Y4.M.6 solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days **Statistics** Y4.S.1 interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs Y4.S.2 solve comparison, sum and difference problems using information	object by one hundred and dividing tenths by ten Y4.NF.3 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 Y4.NF.5 recognise and write decimal equivalents of any number of tenths or hundredths Y4.NF.7 find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredth Y4.NF.8 round decimals with one decimal place to the nearest whole number Y4.NF.9 compare numbers with the same number of decimal places up to two decimal places **Measurement** Y4.M.2 measure and calculate the perimeter of a rectilinear figure	quantities, including non-unit fractions where the answer is a whole number Y4.NF.4 add and subtract fractions with the same denominator Y4.NF.5 recognise and write decimal equivalents of any number of tenths or hundredths Y4.NF.6 recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$ Y4.NF.7 find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredth Y4.NF.8 round decimals with one decimal place to the nearest whole number Y4.NF.9 compare numbers with the same number of decimal places up to two decimal places Y4.NF.10 solve simple measure and money problems involving fractions and decimals to two decimal places **Measurement**

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	presented in bar charts, pictograms, tables and other graphs	(including squares) in centimetres and metres Y4.M.4 estimate, compare and calculate different measures, including money in pounds and pence Y4.M.5 read, write and convert time between analogue and digital 12- and 24-hour clocks **Geometry Properties of shapes** Y4.GPS.1 compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes Y4.GPS.2 identify acute and obtuse angles and compare and order angles up to two right angles by size Y4.GPS.3 identify lines of symmetry in 2-D shapes presented in different orientations Y4.GPS.4 complete a simple symmetric figure with respect to a specific line of symmetry	Y4.M.1 Convert between different units of measure [for example, kilometre to metre; hour to minute] Y4.M.2 measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres Y4.M.3 find the area of rectilinear shapes by counting squares Y4.M.4 estimate, compare and calculate different measures, including money in pounds and pence Y4.M.6 solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days **Geometry Properties of shapes** Y4.GPS.1 compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes Y4.GPS.4 complete a simple symmetric figure with respect to a specific line of symmetry **Geometry Position and direction**

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			Y4.GPD.1 describe positions on a 2-D grid as coordinates in the first quadrant Y4.GPD.2 describe movements between positions as translations of a given unit to the left/right and up/down Y4.GPD.3 plot specified points and draw sides to complete a given polygon **Statistics** Y4.S.1 interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs Y4.S.2 solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs
Year 5	**Number and place value** Y5.NPV.1 read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit Y5.NPV.2 count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000	**Number and place value** Y5.NPV.1 read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit Y5.NPV.3 interpret negative numbers in context, count forwards and	**Number and place value** Y5.NPV.1 read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit Y5.NPV.3 interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero

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	Y5.NPV.4 round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 Y5.NPV.5 solve number problems and practical problems that involve all of the above **Number addition and subtraction** Y5.NAS.1 add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) Y5.NAS.2 add and subtract numbers mentally with increasingly large numbers Y5.NAS.3 use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy Y5.NAS.4 solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. **Number multiplication and division**	backwards with positive and negative whole numbers, including through zero Y5.NPV.5 solve number problems and practical problems that involve all of the above **Number addition and subtraction** Y5.NAS.2 add and subtract numbers mentally with increasingly large numbers Y5.NAS.3 use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy Y5.NAS.4 solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. **Number multiplication and division** Y5.NMD.1 identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers Y5.NMD.2 know and use the vocabulary of prime numbers, prime	Y5.NPV.4 round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 Y5.NPV.5 solve number problems and practical problems that involve all of the above Y5.NPV.6 read Roman numerals to 1000 (M) and recognise years written in Roman numerals **Number addition and subtraction** Y5.NAS.1 add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) Y5.NAS.2 add and subtract numbers mentally with increasingly large numbers Y5.NAS.3 use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy Y5.NAS.4 solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. **Number multiplication and division**

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	Y5.NMD.1 identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers Y5.NMD.4 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 Y5.NMD.5 multiply and divide numbers mentally drawing upon known facts Y5.NMD.6 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 Y5.NMD.7 multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 Y5.NMD.9 solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes Y5.NMD.10 solve problems involving addition, subtraction, multiplication and division and a combination of	factors and composite (non-prime) numbers Y5.NMD.3 establish whether a number up to 100 is prime and recall prime numbers up to 19 Y5.NMD.4 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 Y5.NMD.5 multiply and divide numbers mentally drawing upon known facts Y5.NMD.6 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 Y5.NMD.7 multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 Y5.NMD.8 recognise and use square numbers and cube numbers, and the notation for squared (^{2}) and cubed (^{3}) Y5.NMD.9 solve problems involving multiplication and division including	Y5.NMD.1 identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers Y5.NMD.4 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 Y5.NMD.5 multiply and divide numbers mentally drawing upon known facts Y5.NMD.6 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 Y5.NMD.7 multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 Y5.NMD.8 recognise and use square numbers and cube numbers, and the notation for squared (^{2}) and cubed (^{3}) Y5.NMD.10 solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign

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	these, including understanding the meaning of the equals sign **Number Fractions (including decimals and percentages)** Y5.NF.1 compare and order fractions whose denominators are all multiples of the same number Y5.NF.2 identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths Y5.NF.6 read and write decimal numbers as fractions [for example, 0.71 = $^{71}/_{100}$] Y5.NF.8 round decimals with two decimal places to the nearest whole number and to one decimal place Y5.NF.9 read, write, order and compare numbers with up to three decimal places Y5.NF.10 solve problems involving number up to three decimal places **Measurement**	using their knowledge of factors and multiples, squares and cubes **Number Fractions (including decimals and percentages)** Y5.NF.1 compare and order fractions whose denominators are all multiples of the same number Y5.NF.3 recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as a mixed number [for example, ⅖ + ⅘ = 6/5 = 11/5] Y5.NF.5 multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams Y5.NF.6 read and write decimal numbers as fractions [for example, 0.71 = $^{71}/_{100}$] Y5.NF.8 round decimals with two decimal places to the nearest whole number and to one decimal place Y5.NF.9 read, write, order and compare numbers with up to three decimal places	Y5.NMD.11 solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates **Number Fractions (including decimals and percentages)** Y5.NF.2 identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths Y5.NF.3 recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as a mixed number [for example, ⅖ + ⅘ = 6/5 = 11/5] Y5.NF.4 add and subtract fractions with the same denominator and denominators that are multiples of the same number Y5.NF.5 multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams Y5.NF.6 read and write decimal numbers as fractions [for example, 0.71 = $^{71}/_{100}$]

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	Y5.M.1 convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) Y5.M.3 measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres Y5.M.6 solve problems involving converting between units of time **Geometry properties of shapes** Y5.GPS.2 know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles Y5.GPS.3 draw given angles, and measure them in degrees (°) Y5.GPS.4 identify: • angles at a point and one whole turn (total 360°) • angles at a point on a straight line and ½ a turn (total 180°) other multiples of 90° Y5.GPS.6 distinguish between regular and irregular polygons based on reasoning about equal sides and angles	Y5.NF.10 solve problems involving number up to three decimal places **Measurement** Y5.M.1 convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) Y5.M.2 understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints Y5.M.7 use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling **Geometry properties of shapes** Y5.GPS.3 draw given angles, and measure them in degrees (°) Y5.GPS.5 use the properties of rectangles to deduce related facts and find missing lengths and angles	Y5.NF.7 recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents Y5.NF.8 round decimals with two decimal places to the nearest whole number and to one decimal place Y5.NF.11 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 Y5.NF.12 solve problems which require knowing percentage and decimal equivalents of ½, ¼, ⅕, ⅖, ⅘ and those fractions with a denominator of a multiple of 10 or 25 **Measurement** Y5.M.3 measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres Y5.M.4 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

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		Y5.GPS.6 distinguish between regular and irregular polygons based on reasoning about equal sides and angles **Statistics** Y5.S.1 solve comparison, sum and difference problems using information presented in a line graph Y5.S.2 complete, read and interpret information in tables, including timetables	Y5.M.5 estimate volume [for example, using 1 cm^3 blocks to build cuboids (including cubes)] and capacity [for example, using water] Y5.M.6 solve problems involving converting between units of time Y5.M.7 use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling **Geometry properties of shapes** Y5.GPS.1 identify 3-D shapes, including cubes and other cuboids, from 2-D representations Y5.GPS.5 use the properties of rectangles to deduce related facts and find missing lengths and angles **Geometry Position and direction** Y5.GPD.1 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 **Statistics**

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			Y5.S.1 solve comparison, sum and difference problems using information presented in a line graph Y5.S.2 complete, read and interpret information in tables, including timetables
Year 6	**Number and place value** Y6.NPV.2 round any whole number to a required degree of accuracy Y6.NPV.3 use negative numbers in context, and calculate intervals across zero Y6.NPV.4 solve number and practical problems that involve all of the above **Number Addition subtraction multiplication and division** Y6.ASMD.1 multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication Y6.ASMD.4 perform mental calculations, including with mixed operations and large numbers Y6.ASMD.6 use their knowledge of the order of operations to carry out	**Number and place value** Y6.NPV.1 read, write, order and compare numbers up to 10 000 000 and determine the value of each digit Y6.NPV.2 round any whole number to a required degree of accuracy Y6.NPV.3 use negative numbers in context, and calculate intervals across zero **Number Addition subtraction multiplication and division** Y6.ASMD.1 multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication Y6.ASMD.2 divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders,	**Number and place value** Y6.NPV.1 read, write, order and compare numbers up to 10 000 000 and determine the value of each digit Y6.NPV.2 round any whole number to a required degree of accuracy Y6.NPV.3 use negative numbers in context, and calculate intervals across zero Y6.NPV.4 solve number and practical problems that involve all of the above **Number Addition subtraction multiplication and division** Y6.ASMD.1 multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication Y6.ASMD.2 divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number

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	calculations involving the four operations Y6.ASMD.7 solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why **Number Fractions (including decimals and percentages)** Y6.NF.1 use common factors to simplify fractions; use common multiples to express fractions in the same denomination Y6.NF.2 compare and order fractions, including fractions >1 Y6.NF.3 add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions Y6.NF. 7 identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places Y6.NF.8 multiply one-digit numbers with up to two decimal places by whole numbers	fractions, or by rounding, as appropriate for the context Y6.ASMD.4 perform mental calculations, including with mixed operations and large numbers Y6.ASMD.5 identify common factors, common multiples and prime numbers Y6.ASMD.7 solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why **Number Fractions (including decimals and percentages)** Y6.NF.3 add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions Y6.NF.4 multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$] Y6.NF.5 divide proper fractions by whole numbers [for example, ⅓ ÷ 2 = ⅙]	remainders, fractions, or by rounding, as appropriate for the context Y6.ASMD.3 divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context Y6.ASMD.4 perform mental calculations, including with mixed operations and large numbers Y6.ASMD.5 identify common factors, common multiples and prime numbers Y6.ASMD.6 use their knowledge of the order of operations to carry out calculations involving the four operations **Number Fractions (including decimals and percentages)** Y6.NF.1 use common factors to simplify fractions; use common multiples to express fractions in the same denomination Y6.NF.3 add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions

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	Y6.NF.10 solve problems which require answers to be rounded to specified degrees of accuracy Y6.NF.11 recall and use equivalences between simple fractions, decimals and percentages, including in different contexts **Ratio and proportion** Y6.RP.2 solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison **Algebra** Y6.A.1 use simple formulae Y6.A.3 express missing number problems algebraically Y6.A.4 find pairs of numbers that satisfy an equation with two unknowns Y6.A.5 enumerate possibilities of combinations of two variables. **Measurement**	Y6.NF.6 associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $\frac{3}{8}$] Y6.NF. 7 identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places Y6.NF.8 multiply one-digit numbers with up to two decimal places by whole numbers Y6.NF.10 solve problems which require answers to be rounded to specified degrees of accuracy **Ratio and proportion** Y6.RP.2 solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison **Measurement** Y6.M.5 recognise when it is possible to use formulae for area and volume of shapes	Y6.NF.4 multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$] Y6.NF. 7 identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places Y6.NF.8 multiply one-digit numbers with up to two decimal places by whole numbers Y6.NF.9 use written division methods in cases where the answer has up to two decimal places **Ratio and proportion** Y6.RP.1 solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts Y6.RP.2 solve problems involving the calculation of percentages [for example, of measures, and such as 15% of 360] and the use of percentages for comparison Y6.RP.3 solve problems involving similar shapes where the scale factor is known or can be found

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	Y6.M.3 convert between miles and kilometres Y6.M.4 recognise that shapes with the same areas can have different perimeters and vice versa Y6.M.5 recognise when it is possible to use formulae for area and volume of shapes Y6.M.6 calculate the area of parallelograms and triangles Y6.M.7 calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm^3) and cubic metres (m^3), and extending to other units [for example, mm^3 and km^3]. **Geometry properties of shapes** Y6.GPS.2 recognise, describe and build simple 3-D shapes, including making nets Y6.GPS.3 compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons	Y6.M.6 calculate the area of parallelograms and triangles Y6.M.7 calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm^3) and cubic metres (m^3), and extending to other units [for example, mm^3 and km^3]. **Geometry properties of shapes** Y6.GPS.1 draw 2-D shapes using given dimensions and angles Y6.GPS.3 compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons Y6.GPS.4 illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius Y6.GPS.5 recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles **Geometry Position and direction**	Y6.RP.4 solve problems involving unequal sharing and grouping using knowledge of fractions and multiples **Algebra** Y6.A.1 use simple formulae Y6.A.2 generate and describe linear number sequences Y6.A.3 express missing number problems algebraically Y6.A.4 find pairs of numbers that satisfy an equation with two unknowns **Measurement** Y6.M.3 convert between miles and kilometres Y6.M.5 recognise when it is possible to use formulae for area and volume of shapes Y6.M.6 calculate the area of parallelograms and triangles Y6.M.7 calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres

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		Y6.GPD.1 describe positions on the full coordinate grid (all four quadrants) Y6.GPD.2 draw and translate simple shapes on the coordinate plane, and reflect them in the axes **Statistics** Y6.S.1 interpret and construct pie charts and line graphs and use these to solve problems Y6.S.2 calculate and interpret the mean as an average	(cm^3) and cubic metres (m^3), and extending to other units [for example, mm^3 and km^3]. **Geometry properties of shapes** Y6.GPS.1 draw 2-D shapes using given dimensions and angles Y6.GPS.3 compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons Y6.GPS.4 illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius Y6.GPS.5 recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles **Geometry Position and direction** Y6.GPD.1 describe positions on the full coordinate grid (all four quadrants) **Statistics** Y6.S.1 interpret and construct pie charts and line graphs and use these to solve problems

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			Y6.S.2 calculate and interpret the mean as an average