CROSSGATES PRIMARY SCHOOL SUBJECT OVERVIEW – Maths

	Term 1 (14.5 Weeks – Roughly 73 days	Term 2	Term 3
FS	**Match, Sort and Compare** Step 1: Match Objects Step 2: Match Pictures and Objects Step 3: Identify a Set Step 4: Sort objects to a type Step 5: Explore Sorting Techniques Step 6: Create Sorting Rules Step 7: Compare Amounts **Talk About Measure and Patterns** Step 1: Compare Size Step 2: Compare Mass Step 3: Compare Capacity Step 4: Explore Simple Patterns Step: 5: Copy and continue simple patterns Step: 6: Create Simple Patterns **It's Me 1,2 and 3** Step 1: Find 1,2 and 3 Step 2: Subitise 1,2 and 3 Step 3: Represent 1,2 and 3 Step 4: 1 more Step 5: 1 less Step 6: Composition 1,2 and 3 **Circles and Triangles** Step 1: Identify and name circles and triangles Step 2: Compare circles and triangles Step 3: Shapes in the Environment Step 4: Describe Position **1,2,3,4,5** Step 1: Find 4 and 5 Step 2: Subitise 4 and 5 Step 3: Represent 4 and 5 Step 4: 1 More Step 5: 1 Less Step 6: Composition of 4 and 5	**Alive in 5** Step 1: Introduce Zero Step 2: Find 0 to 5 Step 3: Subitise 0 to 5 Step 4: Represent 0 - 5 Step 5: 1 more Step 6:1 less Step 7: Composition Step 8: Conceptual Subitising to 5 **Mass and Capacity** Step 1: Compare Mass Step 2: Find a balance Step 3: Explore Capacity Step 4: Compare Capacity **Manipulate Compose and Decompose** **Step 1** Select shapes for a purpose **Step 2** Rotate shapes **Step 3** Manipulate shapes **Step 4** Explain shape arrangements **Step 5** Compose shapes **Step 6** Decompose shapes **Step 7** Copy 2-D shape pictures **Step 8** Find 2-D shapes within 3-D shapes Growing 6,7,8 **Step 1** Find 6, 7 and 8 **Step 2** Represent 6, 7 and 8 **Step 3** 1 more **Step 4** 1 less **Step 5** Composition of 6, 7 and 8 **Step 6** Make pairs-odd and even **Step 7** Double to 8 (find a double) **Step 8** Double to 8 (make a double) **Step 9** Combine 2 groups	**To 20 and beyond** Step 1 Build numbers beyond 10 (10 -13) Step 2 Continue patterns beyond 10 (10-13) Step 3 Build numbers beyond 10 (14-20) Step 4 Continue patterns beyond 10 (14-20) Step 5 Verbal counting beyond 20 Step 6 Verbal counting patterns **How many now** Step 1 Add more Step 2 How many did I add? Step 3 Take away Step 4 How many did I take away? **Manipulate, compose and decompose** Step 1 Select shapes for a purpose Step 2 Rotate shapes Step 3 Manipulate shapes Step 4 Explain shape arrangements Step 5 Compose shapes Step 6 Decompose shapes Step 7 Copy 2-D shape pictures Step 8 Find 2-D shapes within 3-D shapes **Sharing and grouping** Step 1 Explore sharing Step 2 Sharing Step 3 Explore grouping Step 4 Grouping Step 5 Even and odd sharing Step 6 Play with and build doubles **Visualise, build and map** Step 1 Identify units of repeating patterns Step 2 Create own pattern rules Step 3 Explore own pattern rules Step 4 Replicate and build scenes and constructions

	Step 7: Composition of 1-5 **Shapes With 4 Sides** Step 1: Identify and name shapes with 4 sides Step 2: Combine shapes with 4 sides Step 3: Shapes in the Environment Step 4: My day and night	**Step 10** Conceptual subitising **Length Height and Time** **Step 1** Explore length **Step 2** Compare length **Step 3** Explore height **Step 4** Compare height **Step 5** Talk about time **Step 6** Order and sequence time **Building 9 and 10** **Step 1** Find 9 and 10 **Step 2** Compare numbers to 10 **Step 3** Represent 9 and 10 **Step 4** Conceptual subitising to 10 **Step 5** 1 more **Step 6** 1 less **Step 7** Composition to 10 **Step 8** Bonds to 10 (2 parts) **Step 9** Make arrangements of 10 **Step 10** Bonds to 10 (3 parts) **Step 11** Doubles to 10 (find a double) **Step 12** Doubles to 10 (make a double) **Step 13** Explore even and odd **Explore 3D Shapes** **Step 1** Recognise and name 3-D shapes **Step 2** Find 2-D shapes within 3-D shapes **Step 3** Use 3-D shapes for tasks **Step 4** 3-D shapes in the environment **Step 5** Identify more complex patterns **Step 6** Copy and continue patterns **Step 7** Patterns in the environment	Step 5 Visualise from different positions Step 6 Describe positions Step 7 Give instructions to build Step 8 Explore mapping Step 9 Represent maps with models Step 10 Create own maps from familiar places Step 11 Create own maps and plans from story situations **Make connections** Step 1 Deepen understanding Step 2 Patterns and relationships

Year 1	Step 1: **Sort Objects** (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) Step 2: **Count Objects to 10** (Count to and across 100, forwards and backwards, beginning with zero or 1, or from any given number) Step 3: **Count Objects From a Larger Group** (Count to and across 100, forwards and backwards, beginning with zero or 1, or from any given number) Step 4: **Represent Objects** (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) Step 5: **Recognise numbers as words** (Count to and across 100, forwards and backwards, beginning with zero or 1, or from any given number) Step 6: **Count on from any number** (Count to and across 100, forwards and backwards, beginning with zero or 1, or from any given number) Step 7: **1 more** (Count to and across 100, forwards and backwards, beginning with zero or 1, or from any given number) Step 8: **Count backwards within 10** (Count to and across 100, forwards and backwards, beginning with zero or 1, or from any given number) Step 9: **1 less** (Count to and across 100, forwards and backwards, beginning with zero or 1, or from any given number) Step 10: **Compare groups by** matching (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) Step 11: **Fewer, More, Same** (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) Step 12: **Less than, Greater than, Equal to** (Identify and represent numbers using objects and pictorial representations including the	Place Value within 20 **Step 1** Count within 20 **Step 2** Understand 10 **Step 3** Understand 11, 12 and 13 **Step 4** Understand 14, 15 and 16 **Step 5** Understand 17, 18 and 19 **Step 6** Understand 20 **Step 7** 1 more and 1 less **Step 8** The number line to 20 **Step 9** Use a number line to 20 **Step 10** Estimate on a number line to 20 **Step 11** Compare numbers to 20 **Step 12** Order numbers to 20 Addition and Subtraction **Step 1** Count within 20 **Step 2** Understand 10 **Step 3** Understand 11, 12 and 13 **Step 4** Understand 14, 15 and 16 **Step 5** Understand 17, 18 and 19 **Step 6** Understand 20 **Step 7** 1 more and 1 less **Step 8** The number line to 20 **Step 9** Use a number line to 20 **Step 10** Estimate on a number line to 20 **Step 11** Compare numbers to 20 **Step 12** Order numbers to 20 Place Value Within 50 **Step 1** Count from 20 to 50 **Step 2** 20, 30, 40 and 50 **Step 3** Count by making groups of tens **Step 4** Groups of tens and ones **Step 5** Partition into tens and ones **Step 6** The number line to 50 **Step 7** Estimate on a number line to 50 **Step 8** 1 more, 1 less Length and Height	**Multiplication and division** Step 1 Count in 2s Step 2 Count in 10s Step 3 Count in 5s Step 4 Recognise equal groups Step 5 Add equal groups Step 6 Make arrays Step 7 Make doubles Step 8 Make equal groups - grouping Step 9 Make equal groups – sharing **Fractions** Step 1 Recognise a half of an object or a shape Step 2 Find a half of an object or a shape Step 3 Recognise a half of a quantity Step 4 Find a half of a quantity Step 5 Recognise a quarter of an object or a shape Step 6 Find a quarter of an object or a shape Step 7 Recognise a quarter of a quantity Step 8 Find a quarter of a quantity **Geometry- position and direction** • **Step 1** Describe turns • **Step 2** Describe position - left and right • **Step 3** Describe position - forwards and backwards • **Step 4** Describe position - above and below • **Step 5** Ordinal numbers

	number line, and use the language of: equal to, more than, less than (fewer), most, least) Step 13: **Compare Numbers** (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) Step 14: **Order objects and Numbers** (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) Step 15: **The Number Line (Representing Numbers using pictorial representations)** (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) **Addition and Subtraction** Step 1: **Introduce parts and wholes** (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) Step 2: **Introduce part whole model** (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)) Step 3: **Write number sentences** (Read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs) Step 4: **Fact Families/Addition Facts to 5** (Read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs) Step 5: **Number bonds within 10** (Read, write and interpret mathematical statements involving addition (+), subtraction (–) and equals (=) signs) Step 6: **Systematic Number Bonds within 10** (Represent and use number bonds and related subtraction facts within 20, Add and subtract 1-digit and 2-digit numbers to 20, including zero) Step 7: **Number bonds to 10** (Represent and use number bonds and related subtraction facts within 20, Add and subtract 1-digit and 2-digit numbers to 20, including zero)	**Step 1** Compare lengths and heights **Step 2** Measure length using objects **Step 3** Measure length in centimetres Mass and Volume **Step 1** Heavier and lighter **Step 2** Measure mass **Step 3** Compare mass **Step 4** Full and empty **Step 5** Compare volume **Step 6** Measure capacity **Step 7** Compare capacity	**Place value within 100** • Step 1 Count from 50 to 100 • Step 2 Tens to 100 • Step 3 Partition into tens and ones • Step 4 The number line to 100 • Step 5 1 more, 1 less • Step 6 Compare numbers with the same number of tens • Step 7 Compare any two numbers **Measurement – money** • **Step 1** Unitising • **Step 2** Recognise coins • **Step 3** Recognise notes • **Step 4** Count in coins **Measurement – time** • **Step 1** Before and after • **Step 2** Days of the week • **Step 3** Months of the year • **Step 4** Hours, minutes and seconds • **Step 5** Tell the time to the hour • **Step 6** Tell the time to the half hour

	Step 8: **Addition – Add together** (Represent and use number bonds and related subtraction facts within 20 • Add and subtract 1-digit and 2-digit numbers to 20, including zero) Step 9: **Addition Add More** (Represent and use number bonds and related subtraction facts within 20 • Add and subtract 1-digit and 2-digit numbers to 20, including zero) Step 10: **Addition Problems** (Add and subtract 1-digit and 2-digit numbers to 20, including zero) Step 11: **Find a part** (Represent and use number bonds and related subtraction facts within 20, Add and subtract 1-digit and 2-digit numbers to 20, including zero) Step 12: **Subtraction Find a Part** (Represent and use number bonds and related subtraction facts within 20, Add and subtract 1-digit and 2-digit numbers to 20, including zero and Add and subtract 1-digit and 2-digit numbers to 20, including zero) Step 13:**Subtract from 8** (Represent and use number bonds and related subtraction facts within 20, Add and subtract 1-digit and 2-digit numbers to 20, including zero and Add and subtract 1-digit and 2-digit numbers to 20, including zero) Step 14: **Subtraction take away and Cross Out** (Represent and use number bonds and related subtraction facts within 20, Add and subtract 1-digit and 2-digit numbers to 20, including zero and Add and subtract 1-digit and 2-digit numbers to 20, including zero)) Step 15: **Subtraction take away** (Represent and use number bonds and related subtraction facts within 20, Add and subtract 1-digit and 2-digit numbers to 20, including zero and Add and subtract 1-digit and 2-digit numbers to 20, including zero) Step 16: **Subtraction on a number line** (Represent and use number bonds and related subtraction facts within 20, Add and subtract 1-digit and 2-digit numbers to 20, including zero and Add and subtract 1-digit and 2-digit numbers to 20, including zero) Step 17 **Add or Subtract 1 or 2** (Add and subtract 1-digit and 2-digit numbers to 20, including zero) **Geometry - Shape** Step 1: **Recognise and name 3D shapes** (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])		

	Step 2: **Sort 3D Shapes** (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) Step 3: **Recognise and Name 2D Shapes** (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]) Step 4: **Sort 2D Shapes** (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] Step 5:**Patterns with 2D and 3D Shapes** (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	**Place Value** Step 1: **Numbers to 20** (Read and write numbers from 1 to 20 in numerals and words (Y1) • Read and write numbers to at least 100 in numerals and in words) Step 2: **Count objects to 100 by making 10's** (Read and write numbers to at least 100 in numerals and in words) Step 3: **Recognise 10's and 1's** (Identify, represent and estimate numbers using different representations, including the number line and Read and write numbers to at least 100 in numerals and in word) Step 4: **Use a place value chart** (Identify, represent and estimate numbers using different representations, including the number line • Recognise the place value of each digit in a 2-digit number (tens, ones) Step 5: **Partition numbers to 100** (Identify, represent and estimate numbers using different representations, including the number line • Recognise the place value of each digit in a 2-digit number (tens, ones) Step 6: **Write numbers to 100 in words** (Read and write numbers to at least 100 in numerals and in words • Recognise the place value of each digit in a 2-digit number (tens, ones)) Step 7: **Write numbers to 100 in expanded** form (Identify, represent and estimate numbers using different representations, including the number line • Recognise the place value of each digit in a 2-digit number (tens, ones)	Money **Step 1** Count money - pence **Step 2** Count money - pounds (notes and coins) **Step 3** Count money - pounds and pence **Step 4** Choose notes and coins **Step 5** Make the same amount **Step 6** Compare amounts of money **Step 7** Calculate with money **Step 8** Make a pound **Step 9** Find change **Step 10** Two-step problems Multiplication and Division **Step 1** Recognise equal groups **Step 2** Make equal groups **Step 3** Add equal groups **Step 4** Introduce the multiplication symbol **Step 5** Multiplication sentences **Step 6** Use arrays **Step 7** Make equal groups – grouping **Step 8** Make equal groups – sharing **Step 9** The 2 times-table **Step 10** Divide by 2 **Step 11** Doubling and halving	**Fractions** • Step 1 Introduction to parts and whole • Step 2 Equal and unequal parts • Step 3 Recognise a half • Step 4 Find a half • Step 5 Recognise a quarter • Step 6 Find a quarter • Step 7 Recognise a third • Step 8 Find a third • Step 9 Find the whole • Step 10 Unit fractions • Step 11 Non-unit fractions • Step 12 Recognise the equivalence of a half and two quarters • Step 13 Recognise three-quarters • Step 14 Find three-quarters • Step 15 Count in fractions up to a whole

	Step 8: **Write numbers to 100 in expanded form** (Identify, represent and estimate numbers using different representations, including the number line • Recognise the place value of each digit in a 2-digit number (tens, ones) Step 9: **10's on a number line to 100** (Count in steps of 2, 3 and 5 from 0 and in 10s from any number, forward and backward • Identify, represent and estimate numbers using different representations, including the number line) Step 10: **10's and 1's on the number line to 100** (Count in steps of 2, 3 and 5 from 0 and in 10s from any number, forward and backward • Identify, represent and estimate numbers using different representations, including the number line) Step 11: **Estimate numbers on the a number line** (Count in steps of 2, 3 and 5 from 0 and in 10s from any number, forward and backward • Identify, represent and estimate numbers using different representations, including the number line) Step 12: **Compare Objects** (Recognise the place value of each digit in a 2-digit number (tens, ones) • Compare and order numbers from 0 up to 100; use q, G and = signs) Step 13: **Order objects and numbers** (Recognise the place value of each digit in a 2-digit number (tens, ones) • Compare and order numbers from 0 up to 100; use q, G and = signs) Step 14: **Count in 2's 5's and 10's** (Count in steps of 2, 3 and 5 from 0, and in 10s from any number, forward and backward) Step 15: **Count in 3's** (Count in steps of 2, 3 and 5 from 0, and in 10s from any number, forward and backward) **Addition and Subtraction** Step 1: **Bonds to 10** (Represent and use number bonds and related subtraction facts within 20 (Y1) • Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100) Step 2: **Fact Families – Bonds within 20** (Represent and use number bonds and related subtraction facts within 20 (Y1) • Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100) Step 3: **Related Facts** (Number bonds to 10 and related facts to 100) Step 4: **Bonds to 100** (Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100	**Step 12** Odd and even numbers **Step 13** The 10 times-table **Step 14** Divide by 10 **Step 15** The 5 times-table **Step 16** Divide by 5 **Step 17** The 5 and 10 times-tables Length and Height **Step 1** Measure in centimetres **Step 2** Measure in metres **Step 3** Compare lengths and heights **Step 4** Order lengths and heights **Step 5** Four operations with lengths and heights Mass Capacity and Temperature **Step 1** Compare mass **Step 2** Measure in grams **Step 3** Measure in kilograms **Step 4** Four operations with mass **Step 5** Compare volume and capacity **Step 6** Measure in millilitres **Step 7** Measure in litres **Step 8** Four operations with volume and capacity **Step 9** Temperature	**Time** • **Step 1** O'clock and half past • **Step 2** Quarter past and quarter to • **Step 3** Tell time past the hour • **Step 4** Tell time to the hour • **Step 5** Tell the time to 5 minutes • **Step 6** Minutes in an hour • **Step 7** Hours in a day **Statistics** • **Step 1** Make tally charts • **Step 2** Tables • **Step 3** Block diagrams • **Step 4** Draw pictograms (1-1) • **Step 5** Interpret pictograms (1-1) • **Step 6** Draw pictograms (2, 5 and 10) • **Step 7** Interpret pictograms (2, 5 and 10) **Position and direction** • **Step 1** Language of position • **Step 2** Describe movement • **Step 3** Describe turns • **Step 4** Describe movement and turns • **Step 5** Shape patterns with turns

	Step 5: **Add and Subtract 1's** (Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a 2-digit number and 1s, a 2-digit number and 10s, two 2-digit numbers and adding three 1-digit numbers) Step 6: **Add by Making 10** (Add and subtract numbers using concrete objects, pictorial help representations, and mentally, including: a 2-digit number and 1s, a 2-digit number and 10s, two 2-digit numbers and adding three 1-digit numbers) Step 7: **Add three 1 digit numbers** (Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a 2-digit number and 1s, a 2-digit number and 10s, two 2-digit numbers and adding three 1-digit numbers) Step 8: **Add to the next 10** (Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a 2-digit number and 1s, a 2-digit number and 10s, two 2-digit numbers and adding three 1-digit numbers) Step 9: **Add across 10** (Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a 2-digit number and 1s, a 2-digit number and 10s, two 2-digit numbers and adding three 1-digit numbers) Step 10: **Subtract across 10** (Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a 2-digit number and 1s, a 2-digit number and 10s, two 2-digit numbers and adding three 1-digit numbers) Step 11: **Subtract from a 10** (Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a 2-digit number and 1s, a 2-digit number and 10s, two 2-digit numbers and adding three 1-digit numbers) Step 12: **Subtract a single digit from a 2 digit number (across 10)** Step 13:**10 more 10 less** (Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a 2-digit number and 1s, a 2-digit number and 10s, two 2-digit numbers and adding three 1-digit numbers) Step 14: **Add and Subtract 10's** (Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a 2-digit number and 1s, a 2-digit number and 10s, two 2-digit numbers and adding three 1-digit numbers) Step 15: **Add two digit numbers not across 10** (Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a 2-digit number and 1s, a 2-digit number and 10s, two 2-digit numbers and adding three 1-digit numbers)		

	Step 16: **Add two digit numbers across 10** Step 17: **Subtract two digit numbers not across 10** Step 18: **Subtract two digit numbers across 10** Step 19: **Mixed addition and subtraction** (Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a 2-digit number and 1s, a 2-digit number and 10s, two 2-digit numbers and adding three 1-digit numbers) Step 20: **Compare Number Sentences** (Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a 2-digit number and 1s, a 2-digit number and 10s, two 2-digit numbers and adding three 1-digit numbers • Compare and order numbers from 0 up to 100; use greater than and less than and = signs) Step 21: **Missing Number Problems** (Add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a 2-digit number and 1s, a 2-digit number and 10s, two 2-digit numbers and adding three 1-digit numbers) **Geometry - Shape** Step 1: **Recognise 2D and 3D shapes** (Identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line) Step 2: **Count sides of 2D shapes** (As above) Step 3: **Count Vertices on 2D Shapes** (As Above) Step 4: **Draw 2D Shapes** (As Above) Step 5: **Lines of Symmetry on shapes** (Identify and describe the properties of 2D shapes, including the number of sides, and line symmetry in a vertical line) Step 6:**Lines of symmetry on shapes** (Identify and describe the properties of 2D shapes, including the number of sides, and line symmetry in a vertical line) Step 7: **Ssort 2D Shapes** (Compare and sort common 2-D and 3-D shapes and everyday objects) Step 8: **Count Faces on 3D Shapes** (Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces • Identify 2-D shapes on the surface of 3-D shapes) Step 9: **Count Edges on 3D Shapes** (As Above) Step 10: **Count Vertices on 3D Shapes** (As Above) Step 11: **Sort 3D Shapes** (Identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a		

	vertical line • Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces) Step 12: **Make Patterns with 2D and 3D shapes** (Identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line • Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces)		
Year 3	**Place Value** Step 1: **Represent numbers to 100** (Identify, represent and estimate numbers using different representations). Step 2: Partition numbers to 100 (Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones)) Step 3: **Number line to 100** (Count from zero in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number • Identify, represent and estimate numbers using different representations) Step 4: **Hundreds** (Count from zero in multiples of 4, 8, 50 and 100 • Identify, represent and estimate numbers using different representations • Read and write numbers up to 1,000 in numerals and words) Step 5:**Represent numbers to 1000** (Read and write numbers up to 1,000 in numerals and words • Identify, represent and estimate numbers using different representations) Step 6: **Partition numbers to 1000** (Read and write numbers up to 1,000 in numerals and words • Identify, represent and estimate numbers using different representations) Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones) Step 7: Flexible partitioning to 1000 (Read and write numbers up to 1,000 in numerals and words • Identify, represent and estimate numbers using different representations) Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones) Step 8: **Hundreds, tens and ones** (Read and write numbers up to 1,000 in numerals and in words • Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones) Step 9: **1,10, 100 more or less** (Read and write numbers up to 1,000 in numerals and in words • Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones)	Multiplication and Division B **Step 1** Multiples of 10 **Step 2** Related calculations **Step 3** Reasoning about multiplication **Step 4** Multiply a 2-digit number by a 1-digit number - no exchange **Step 5** Multiply a 2-digit number by a 1-digit number - with exchange **Step 6** Link multiplication and division **Step 7** Divide a 2-digit number by a 1-digit number - no exchange **Step 8** Divide a 2-digit number by a 1-digit number - flexible partitioning **Step 9** Divide a 2-digit number by a 1-digit number - with remainders **Step 10** Scaling **Step 11** How many ways? Length and Perimeter **Step 1** Measure in metres and centimetres **Step 2** Measure in millimetres **Step 3** Measure in centimetres and millimetres **Step 4** Metres, centimetres and millimetres **Step 5** Equivalent lengths (metres and centimetres) **Step 6** Equivalent lengths (centimetres and millimetres) **Step 7** Compare lengths **Step 8** Add lengths **Step 9** Subtract lengths **Step 10** What is perimeter? **Step 11** Measure perimeter	**Fractions B** • **Step 1** Add fractions • **Step 2** Subtract fractions • **Step 3** Partition the whole • **Step 4** Unit fractions of a set of objects • **Step 5** Non-unit fractions of a set of objects • **Step 6** Reasoning with fractions of an amount **Money** • Step 1 Pounds and pence • Step 2 Convert pounds and pence • Step 3 Add money • Step 4 Subtract money • Step 5 Find change **Time** • **Step 1** Roman numerals to 12 • **Step 2** Tell the time to 5 minutes • **Step 3** Tell the time to the minute • **Step 4** Read time on a digital clock • **Step 5** Use a.m. and p.m.

	Step 10: **Number line to 1000** (Count from zero in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number • Identify, represent and estimate numbers using different representations) Step 11: **Estimate Numbers on a number line** (Count from zero in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number • Identify, represent and estimate numbers using different representation) Step 12: **Compare numbers to 1000** (Compare and order numbers up to 1,000) Step 13: **Order numbers to 1000** (Compare and order numbers up to 1,000) Step 14:**Count in 50's** (Count from zero in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number) **Addition and Subtraction** Step 1: **Apply number bonds in 10** (Add and subtract numbers mentally, including: • a 3-digit number and ones • a 3-digit number and tens , then the other = 100, then I also know … • a 3-digit number and hundred) Step 2: **Add and Subtract 1's** (Add and subtract numbers mentally, including: • a 3-digit number and ones • a 3-digit number and tens , then the other = 100, then I also know … • a 3-digit number and hundred) Step 3: **Add and Subtract 10's** (Add and subtract numbers mentally, including: • a 3-digit number and ones • a 3-digit number and tens , then the other = 100, then I also know … • a 3-digit number and hundred) Step 4: **Add and Subtract 100's** (Add and subtract numbers mentally, including: • a 3-digit number and ones • a 3-digit number and tens , then the other = 100, then I also know … • a 3-digit number and hundred) Step 5:**Spot the pattern** (Add and subtract numbers mentally, including: • a 3-digit number and ones • a 3-digit number and tens , then the other = 100, then I also know … • a 3-digit number and hundred) Step 6:**Add 1's across 10's** (Add and subtract numbers mentally, including: • a 3-digit number and ones • a 3-digit number and tens , then the other = 100, then I also know … • a 3-digit number and hundred) Step 7: **Add 10's Across 10** (Add and subtract numbers mentally, including: • a 3-digit number and ones • a 3-digit number and	**Step 12** Calculate perimeter Fractions A **Step 1** Understand the denominators of unit fractions **Step 2** Compare and order unit fractions **Step 3** Understand the numerators of non-unit fractions **Step 4** Understand the whole **Step 5** Compare and order non-unit fractions **Step 6** Fractions and scales **Step 7** Fractions on a number line **Step 8** Count in fractions on a number line **Step 9** Equivalent fractions on a number line Mass and Capacity **Step 1** Use scales **Step 2** Measure mass in grams **Step 3** Measure mass in kilograms and grams **Step 4** Equivalent masses (kilograms and grams) **Step 5** Compare mass **Step 6** Add and subtract mass **Step 7** Measure capacity and volume in millilitres **Step 8** Measure capacity and volume in litres and millilitres **Step 9** Equivalent capacities and volumes (litres and millilitres) **Step 10** Compare capacity and volume	• **Step 6** Years, months and days • **Step 7** Days and hours • **Step 8** Hours and minutes - use start and end times • **Step 9** Hours and minutes - use durations • **Step 10** Minutes and seconds • **Step 11** Units of time • **Step 12** Solve problems with time **Shape** • **Step 1** Turns and angles • **Step 2** Right angles • **Step 3** Compare angles • **Step 4** Measure and draw accurately • **Step 5** Horizontal and vertical • **Step 6** Parallel and perpendicular • **Step 7** Recognise and describe 2-D shapes • **Step 8** Draw polygons • **Step 9** Recognise and describe 3-D shapes • **Step 10** Make 3-D shapes **Statistics** • **Step 1** Interpret pictograms • **Step 2** Draw pictograms • **Step 3** Interpret bar charts • **Step 4** Draw bar charts • **Step 5** Collect and represent data • **Step 6** Two-way tables

	tens , then the other = 100, then I also know … • a 3-digit number and hundred) Step 8: **Subtract 1's a cross a 10** (Add and subtract numbers mentally, including: • a 3-digit number and ones • a 3-digit number and tens , then the other = 100, then I also know … • a 3-digit number and hundred) Step 9: **Subtract 10's a cross 100** (Add and subtract numbers mentally, including: • a 3-digit number and ones • a 3-digit number and tens , then the other = 100, then I also know … • a 3-digit number and hundred) Step 10: **Make Connections** (Add and subtract numbers mentally, including: • a 3-digit number and ones • a 3-digit number and tens , then the other = 100, then I also know … • a 3-digit number and hundred) Step 11: **Add two numbers** (No exchange) (Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction • Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction) Step 12:**Subtract two numbers** (No exchange) (Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction • Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction) Step 13:**Add two numbers across a 10** (Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction • Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction) Step 14:**Add two numbers** (A cross 100) (Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction • Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction) Step 15: **Subtract two numbers a cross a 10** (Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction • Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction) Step 16:Subtract two numbers across 100 (Add and subtract numbers with up to three digits, using formal written methods of		

	columnar addition and subtraction • Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction) Step 17:Add 2 digit and 3 digit numbers (Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction • Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction) Step 18:Subtract a 2digit and a 3digit number (As above) Step 19: Compliments to 100 (Add and subtract numbers mentally, including: • a 3-digit number and ones • a 3-digit number and tens • a 3-digit number and hundreds Step 20 Estimate Answers (Estimate the answer to a calculation and use inverse operations to check answers) Step 21: Inverse Operations (Estimate the answer to a calculation and use inverse operations to check answers) Step 22: Make Decisions (Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction) **Multiplication and Division (A)** Step 1: **Multiplication –** Equal Groups (Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods) Step 2: **Use Arrays** (Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot (Y2) • Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods) Step 3: **Multiples of 2** (Count in steps of 2, 3 and 5 from 0, and in 10s from any number, forward and backward (Y2) • Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers (Y2)) Step 4: **Multiples of 5 and 10** (Count in steps of 2, 3 and 5 from 0, and in 10s from any number, forward and backward (Y2) • Recall and use multiplication and division facts for the 2, 5 and		

	10 multiplication tables, including recognising odd and even numbers (Y2) Step 5: **Sharing and Grouping** (Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods) Step 6: **Multiply by 3** (Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables • Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods) Step 7: **Divide by 3** (Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables • Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods) Step 8: **The 3 times tables** (Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables • Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods) Step 9: **Multiply by 4** (Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables • Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods) Step 10: **Divide by 4** (Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables • Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods) Step 11: **The 4 Times tables** (Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables • Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-		

	digit numbers times 1-digit numbers, using mental and progressing to formal written methods) Step 12: **Multiply by 8** (Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables • Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods) Step 13: **Divide by 8** (Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables • Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods) Step 14: **The 8 Times tables** (Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables • Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods) Step 15: **The 2, 4 and 8 times tables** (Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables • Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods)		
Year 4	**Place Value** Step 1: **Represent numbers to 1,000** (Read and write numbers up to 1,000 in numerals and words (Y3) • Identify, represent and estimate numbers using different representations) Step 2: **Partition numbers to 1000** (Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones) and Identify, represent and estimate numbers using different representations Step 3: **Number line to 1000** (Identify, represent and estimate numbers using different representations) Step 4: **Thousands** (Count in multiples of 6, 7, 9, 25 and 1,000) Step 5: **Represent numbers to 10,000** (Recognise the place value of each digit in a 4-digit number (thousands, hundreds, tens and ones) tens • Identify, represent and estimate numbers using different representations)	**Multiplication and Division B** **Step 1** Factor pairs **Step 2** Use factor pairs **Step 3** Multiply by 10 **Step 4** Multiply by 100 **Step 5** Divide by 10 **Step 6** Divide by 100 **Step 7** Related facts – multiplication and division **Step 8** Informal written methods for multiplication **Step 9** Multiply a 2-digit number by a 1-digit number **Step 10** Multiply a 3-digit number by a 1-digit number	**Decimals B** • **Step 1** Make a whole with tenths • **Step 2** Make a whole with hundredths • **Step 3** Partition decimals • **Step 4** Flexibly partition decimals • **Step 5** Compare decimals • **Step 6** Order decimals • **Step 7** Round to the nearest whole number • **Step 8** Halves and quarters as decimals **Money**

	Step 6: **Partition numbers to 10,000** (Recognise the place value of each digit in a 4-digit number (thousands, hundreds, tens and ones) tens • Identify, represent and estimate numbers using different representations) Step 7: **Flexible Partitioning to 10,000** (Recognise the place value of each digit in a 4-digit number (thousands, hundreds, tens and ones) • Identify, represent and estimate numbers using different representations) Step 8: **Find 1, 10, 100, 1000 more or less** (Find 1,000 more or less than a given number) Step 9: **Number line to 10,000** (Identify, represent and estimate numbers using different representations • Order and compare numbers beyond 1,000) Step 10: **Estimate numbers to 10,000** (Identify, represent and estimate numbers using different representations • Order and compare numbers beyond 1,000) Step 11: **Compare numbers to 10,000** (Order and compare numbers beyond 1,000) Step 12: **Order numbers to 10,000** (Order and compare numbers beyond 1,000) Step 13:**Roman Numerals** (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) Step 14: **Round to the nearest 10** (Round any number to the nearest 10, 100 or 1,000) Step 15: **Round to the nearest 100** (Round any number to the nearest 10, 100 or 1,000) Step 16: **Round to the nearest 1000** (Round any number to the nearest 10, 100 or 1,000) Step 17:**Round to the nearest 10,100 and 10,000** (Round any number to the nearest 10, 100 or 1,000) **Addition and Subtraction** Step 1: **Add and Subtract 1's 10's, 100's, 1000's (**Add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where appropriate • Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why) Step 2: **Add up to two digit numbers** (Add and subtract numbers with up to four digits using the formal written methods of	**Step 11** Divide a 2-digit number by a 1-digit number (1) **Step 12** Divide a 2-digit number by a 1-digit number (2) **Step 13** Divide a 3-digit number by a 1-digit number **Step 14** Correspondence problems **Step 15** Efficient multiplication **Length and Perimeter** **Step 1** Measure in kilometres and metres **Step 2** Equivalent lengths (kilometres and metres) **Step 3** Perimeter on a grid **Step 4** Perimeter of a rectangle **Step 5** Perimeter of rectilinear shapes **Step 6** Find missing lengths in rectilinear shapes **Step 7** Calculate perimeter of rectilinear shapes **Step 8** Perimeter of regular polygons **Step 9** Perimeter of polygons **Fractions** **Step 1** Understand the whole **Step 2** Count beyond 1 **Step 3** Partition a mixed number **Step 4** Number lines with mixed numbers **Step 5** Compare and order mixed numbers **Step 6** Understand improper fractions **Step 7** Convert mixed numbers to improper fractions **Step 8** Convert improper fractions to mixed numbers **Step 9** Equivalent fractions on a number line **Step 10** Equivalent fraction families **Step 11** Add two or more fractions **Step 12** Add fractions and mixed numbers **Step 13** Subtract two fractions **Step 14** Subtract from whole amounts **Step 15** Subtract from mixed numbers	• **Step 1** Write money using decimals • **Step 2** Convert between pounds and pence • **Step 3** Compare amounts of money • **Step 4** Estimate with money • **Step 5** Calculate with money • **Step 6** Solve problems with money **Time** • **Step 1** Years, months, weeks and days • **Step 2** Hours, minutes and seconds • **Step 3** Convert between analogue and digital times • **Step 4** Convert to the 24 hour clock • **Step 5** Convert from the 24 hour clock **Shape** • Step 1 Understand angles as turns • Step 2 Identify angles • Step 3 Compare and order angles • Step 4 Triangles • Step 5 Quadrilaterals • Step 6 Polygons • Step 7 Lines of symmetry • Step 8 Complete a symmetric figure **Statistics** • **Step 1** Interpret charts • **Step 2** Comparison, sum and difference • **Step 3** Interpret line graphs • **Step 4** Draw line graphs **Position and direction**

	columnar addition and subtraction where appropriate • Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why) Step 3: **Add two 4 digit numbers (**Add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where appropriate • Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why) Step 4: **Add two 4 digit numbers - more than one exchange** (Add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where appropriate • Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why) Step 5: **Subtract two 4 digit numbers – No Exchange** (Add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where appropriate ? • Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why) Step 6: **Subtract two 4 digit numbers - one exchange** (Add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where appropriate ? • Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why) Step 7: **Subtract two 4 digit numbers – More than one exchange** (Add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where appropriate • Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why) Step 8: **Efficient Subtraction** (Add and subtract numbers with up to four digits using the formal written methods of columnar addition and subtraction where appropriate) Step 9: **Estimate Answers** (Estimate and use inverse operations to check answers to a calculation) Step 10: **Checking Strategies** (Estimate and use inverse operations to check answers to a calculation) **Measurement Area**	**Decimals** **Step 1** Tenths as fractions **Step 2** Tenths as decimals **Step 3** Tenths on a place value chart **Step 4** Tenths on a number line **Step 5** Divide a 1-digit number by 10 **Step 6** Divide a 2-digit number by 10 **Step 7** Hundredths as fractions **Step 8** Hundredths as decimals **Step 9** Hundredths on a place value chart **Step 10** Divide a 1- or 2-digit number by 100	• **Step 1** Describe position using coordinates • **Step 2** Plot coordinates • **Step 3** Draw 2-D shapes on a grid • **Step 4** Translate on a grid • **Step 5** Describe translation on a grid

	Step 1: What is Area (Find the area of rectilinear shapes by counting squares) Step 2: Count Squares (Find the area of rectilinear shapes by counting squares) Step 3: Make Shapes (Find the area of rectilinear shapes by counting squares) Step 4: Compare Areas (Find the area of rectilinear shapes by counting squares) **Multiplication and Division** Step 1: **Multiples of 3** (Recall multiplication and division facts for multiplication tables up to 12 × 12 • Recognise and use factor pairs and commutativity in mental calculations) Step 2: **Multiples of 6** (Recall multiplication and division facts for multiplication tables up to 12 × 12 • Recognise and use factor pairs and commutativity in mental calculations) Step 3: **6 times tables and division facts** (Recall multiplication and division facts for multiplication tables up to 12 × 12 • Count in multiples of 6, 7, 9, 25 and 1,000 Step 4: **Multiply and divide by 9** (Recall multiplication and division facts for multiplication tables up to 12 × 12 • Count in multiples of 6, 7, 9, 25 and 1,000 Step 5:**9 times tables and division facts** (Recall multiplication and division facts for multiplication tables up to 12 × 12 • Count in multiples of 6, 7, 9, 25 and 1,000 Step 6:**The 3, 6 and 9 times tables** (Recall multiplication and division facts for multiplication tables up to 12 × 12 • Count in multiples of 6, 7, 9, 25 and 1,000 Step 7: **Multiply and Divide by 7** (Recall multiplication and division facts for multiplication tables up to 12 × 12 • Count in multiples of 6, 7, 9, 25 and 1,000 Step 8: **7 times tables and division facts** (Recall multiplication and division facts for multiplication tables up to 12 × 12 • Count in multiples of 6, 7, 9, 25 and 1,000 Step 9: **11 times tables and division facts** (Recall multiplication and division facts for multiplication tables up to 12 × 12 ÷ 11? • Recognise and use factor pairs and commutativity in mental calculations) Step 10: **12 times tables and division facts** (Recall multiplication and division facts for multiplication tables up to 12 × 12 •		

	Recognise and use factor pairs and commutativity in mental calculations) Step 11: **Multiply by 1 and 0** (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) Step 12: **Divide a number by 1 and itself** (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) Step 13: **Multiply three numbers** (Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers)		
Year 5	**Place Value** Step 1: **Roman Numerals to 1000** (Read Roman numerals to 1,000 (M) and recognise years written in Roman numerals) Step 2: **Numbers to 10,000** (Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit • Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000) Step 3: **Numbers to 100,000** (Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit • Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000) Step 4: **Numbers to 1,000,000** (Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit • Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000) Step 5: **Read and Write numbers to 1,000,000** Step 6:**Powers of 10** (Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit • Solve number problems and practical problems that involve the above) Step 7: **10/100/1000/10,000/100,000 more or less** (as above) Step 8: Partition numbers to 1,000,000 (Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit) Step 9: **Number line to 1,000,000** (Read, write, order and compare numbers to at least 100,000 and determine the value of	**Multiplication and Division B** Step 1 Multiply up to a 4-digit number by a 1-digit number Step 2 Multiply a 2-digit number by a 2-digit number (area model) Step 3 Multiply a 2-digit number by a 2-digit number Step 4 Multiply a 3-digit number by a 2-digit number Step 5 Multiply a 4-digit number by a 2-digit number Step 6 Solve problems with multiplication Step 7 Short division Step 8 Divide a 4-digit number by a 1-digit number Step 9 Divide with remainders Step 10 Efficient division Step 11 Solve problems with multiplication and division **Fractions** Step 1 Multiply a unit fraction by an integer Step 2 Multiply a non-unit fraction by an integer Step 3 Multiply a mixed number by an integer Step 4 Calculate a fraction of a quantity	**Shape** • **Step 1** Understand and use degrees • **Step 2** Classify angles • **Step 3** Estimate angles • **Step 4** Measure angles up to 180° • **Step 5** Draw lines and angles accurately • **Step 6** Calculate angles around a point • **Step 7** Calculate angles on a straight line • **Step 8** Lengths and angles in shapes • **Step 9** Regular and irregular polygons • **Step 10** 3-D shapes **Position and direction** • Step 1 Read and plot coordinates

	each digit • Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000) Step 10: **Compare and order numbers to 100,000** (as above) Step 11: **Compare and order numbers to 1,000,000** (as above) Step 12: **Round to the nearest 10,100,1000** Step 13: **Round within 100,000** Step 14: **Round within 1,000,000** **Addition and Subtraction** Step 1: **Mental Strategies** (Add and subtract numbers mentally with increasingly large numbers) Step 2: **Add whole digits more than 4 digits** (Add and subtract whole numbers with more than four digits, including using formal written methods (columnar addition and subtraction) • Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why) Step 3: **Subtract whole numbers with more than 4 digits** (As above) Step 4: **Round to check answers** (Round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000 • Add and subtract numbers mentally with increasingly large numbers • Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy) Step 5: **Inverse operations (**Addition and subtraction) (Add and subtract whole numbers with more than four digits, including using formal written methods (columnar addition and subtraction) • Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why) Step 6: **Multi-Step Addition and subtraction Problems** ((Add and subtract whole numbers with more than four digits, including using formal written methods (columnar addition and subtraction) • Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why) Step 7: **Compare Calculations** (Add and subtract numbers mentally with increasingly large numbers • Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why) Step 8: **Find Missing Numbers** (Add and subtract numbers mentally with increasingly large numbers • Solve addition and	Step 5 Fraction of an amount Step 6 Find the whole Step 7 Use fractions as operators **Decimals and Percentages** Step 1 Decimals up to 2 decimal places Step 2 Equivalent fractions and decimals (tenths) Step 3 Equivalent fractions and decimals (hundredths) Step 4 Equivalent fractions and decimals Step 5 Thousandths as fractions Step 6 Thousandths as decimals Step 7 Thousandths on a place value chart Step 8 Order and compare decimals (same number of decimal places) Step 9 Order and compare any decimals with up to 3 decimal places Step 10 Round to the nearest whole number Step 11 Round to 1 decimal place Step 12 Understand percentages Step 13 Percentages as fractions Step 14 Percentages as decimals Step 15 Equivalent fractions, decimals and percentages **Perimeter and Area** Step 1 Perimeter of rectangles Step 2 Perimeter of rectilinear shapes Step 3 Perimeter of polygons Step 4 Area of rectangles Step 5 Area of compound shapes Step 6 Estimate area **Statistics** Step 1 Draw line graphs Step 2 Read and interpret line graphs Step 3 Read and interpret tables Step 4 Two-way tables	• Step 2 Problem solving with coordinates • Step 3 Translation • Step 4 Translation with coordinates • Step 5 Lines of symmetry • Step 6 Reflection in horizontal and vertical lines **Decimals** • **Step 1** Use known facts to add and subtract decimals within 1 • **Step 2** Complements to 1 • **Step 3** Add and subtract decimals across 1 • **Step 4** Add decimals with the same number of decimal places • **Step 5** Subtract decimals with the same number of decimal places • **Step 6** Add decimals with different numbers of decimal places • **Step 7** Subtract decimals with different numbers of decimal places • **Step 8** Efficient strategies for adding and subtracting decimals • **Step 9** Decimal sequences • **Step 10** Multiply by 10, 100 and 1,000 • **Step 11** Divide by 10, 100 and 1,000 • **Step 12** Multiply and divide decimals - missing values

	subtraction multi-step problems in contexts, deciding which operations and methods to use and why) **Multiplication and Division** Step 1: **Multiples** (Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers • Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes) Step 2: **Common Multiples** (As Above) Step 3: **Factors** (As above) Step 4: **Common Factors** (As Above) Step 5: **Prime Numbers** Step 6: **Square Numbers** (Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3) • Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes) Step 7: **Cube Numbers** (As Above) Step 8: **Multiply by 10,100,1000** (Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 Step 9: **Divide by 10,100, 1000** (As Above) Step 10: **Multiples of 10,100,1000** (Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 • Multiply and divide numbers mentally, drawing upon known facts) **Fractions** Step 1: **Find fractions equivalent to a unit fraction** (Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths) Step 2: **Find fractions equivalent to a non-unit fraction ((**Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths) Step 3: **Recognise equivalent fractions (**As Above**)** Step 4: **Convert improper fractions to mixed numbers** (Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements G 1 as a mixed number) Step 5: **Convert mixed numbers to improper fractions** (As Above)	Step 5 Read and interpret timetables	**Negative numbers** • **Step 1** Understand negative numbers • **Step 2** Count through zero in 1s • **Step 3** Count through zero in multiples • **Step 4** Compare and order negative numbers • **Step 5** Find the difference **Converting units** • **Step 1** Kilograms and kilometres • **Step 2** Millimetres and millilitres • **Step 3** Convert units of length • **Step 4** Convert between metric and imperial units • **Step 5** Convert units of time • **Step 6** Calculate with timetables **Measurement – volume** • Step 1 Cubic centimetres • Step 2 Compare volume • Step 3 Estimate volume • Step 4 Estimate capacity

	Step 6: **Compare fractions less than 1** (Compare and order fractions whose denominators are all multiples of the same number • Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths) Step 7: **Order fractions less than 1** (As Above) Step 8: **Compare and order fractions greater than 1** Step 9: **Add and Subtract fractions with the same denominator** (Add and subtract fractions with the same denominator, and denominators that are multiples of the same number • Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements G 1 as a mixed number) Step 10: **Add fractions within 1** (Add and subtract fractions with the same denominator, and denominators that are multiples of the same number) Step 11: **Add fractions with total greater than** 1 (As Above) Step 12: Add a mixed Number (As Above) Step 13:Add two mixed numbers (As Above) Step 14:: Subtract Fractions (As Above) Step 15: Subtract from a Mixed Number (As above and Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements G 1 as a mixed number) Step 16: Subtract from a mixed number – breaking the whole (As above) Step 17:Subtract two mixed numbers (As above)		
Year 6	**Place Value** Step 1: Numbers to 1,000,000 (Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit • Solve number and practical problems that involve the above) Step 2: Numbers to 10,000,000 (As above) Step 3: Read and write numbers to 10,000,000 (As Above) Step 4: Powers of 10 (As Above) Step 5: Number line to 10,000,000 (as Above) Step 6: Compare and order any integer (As Above) Step 7: Round any integer (As Above) Step 8: Negative Numbers (As Above)	**Decimals** Step 1 1-step function machines Step 2 2-step function machines Step 3 Form expressions Step 4 Substitution Step 5 Formulae Step 6 Form equations Step 7 Solve 1-step equations Step 8 Solve 2-step equations Step 9 Find pairs of values	**Themed Projects** (Consolidation and Problem Solving) **Ratio** Step 1 Add or multiply? Step 2 Use ratio language Step 3 Introduction to the ratio symbol Step 4 Ratio and fractions Step 5 Scale drawing Step 6 Use scale factors

Addition Subtraction Multiplication Division
Step 1: add and subtract integers
Step 2: common factors
Step 3: common multiples
Step 4: Rules of divisibility
Step 5: Primes to 100
Step 6: Square and cube numbers
Step 7: Multiply up to 4 digit number by a two digit number
Step 8: Solve problems with multiplication
Step 9: Short Division
Step 10: Division using factors
Step 11: Introduction to long division
Step 12: Long division with remainders
Step 13: Solve problems with division
Step 14: Solve multi-step problems
Step 15: Order of operations
Step 16: Mental calculations and estimations
Step 17: Reason from known facts

Fractions A
Step 1 Equivalent fractions and simplifying
Step 2 Equivalent fractions on a number line
Step 3 Compare and order (denominator)
Step 4 Compare and order (numerator)
Step 5 Add and subtract simple fractions
Step 6 Add and subtract any two fractions
Step 7 Add mixed numbers
Step 8 Subtract mixed numbers
Step 9 Multi-step problems

Fractions B
Step 1 Multiply fractions by integers
Step 2 Multiply fractions by fractions
Step 3 Divide a fraction by an integer
Step 4 Divide any fraction by an integer
Step 5 Mixed questions with fractions
Step 6 Fraction of an amount
Step 7 Fraction of an amount – find the whole
Step 10 Solve problems with two unknowns

Fractions, Decimals and Percentages
Step 1 Decimal and fraction equivalents
Step 2 Fractions as division
Step 3 Understand percentages
Step 4 Fractions to percentages
Step 5 Equivalent fractions, decimals and percentages
Step 6 Order fractions, decimals and percentages
Step 7 Percentage of an amount – one step
Step 8 Percentage of an amount – multi-step
Step 9 Percentages – missing values

Area, Perimeter and Volume
Step 1 Shapes – same area
Step 2 Area and perimeter
Step 3 Area of a triangle – counting squares
Step 4 Area of a right-angled triangle
Step 5 Area of any triangle
Step 6 Area of a parallelogram
Step 7 Volume – counting cubes
Step 8 Volume of a cuboid

Statistics
Step 1 Line graphs
Step 2 Dual bar charts
Step 3 Read and interpret pie charts
Step 4 Pie charts with percentages
Step 5 Draw pie charts
Step 6 The mean

Converting Units
Step 1 Metric measures
Step 2 Convert metric measures
Step 3 Calculate with metric measures
Step 4 Miles and kilometres
Step 5 Imperial measures
Step 7 Similar shapes
Step 8 Ratio problems
Step 9 Proportion problems
Step 10 Recipes

Algebra
Step 1 1-step function machines
Step 2 2-step function machines
Step 3 Form expressions
Step 4 Substitution
Step 5 Formulae
Step 6 Form equations
Step 7 Solve 1-step equations
Step 8 Solve 2-step equations
Step 9 Find pairs of values
Step 10 Solve problems with two unknowns

Shape
Step 7 Angles in a quadrilateral
Step 8 Angles in polygons
Step 9 Circles
Step 10 Draw shapes accurately
Step 11 Nets of 3-D shapes

		Shape Step 1 Measure and classify angles Step 2 Calculate angles Step 3 Vertically opposite angles Step 4 Angles in a triangle Step 5 Angles in a triangle – special cases Step 6 Angles in a triangle – missing angles **Position and Direction** Step 1 The first quadrant Step 2 Read and plot points in four quadrants Step 3 Solve problems with coordinates Step 4 Translations Step 5 Reflections	