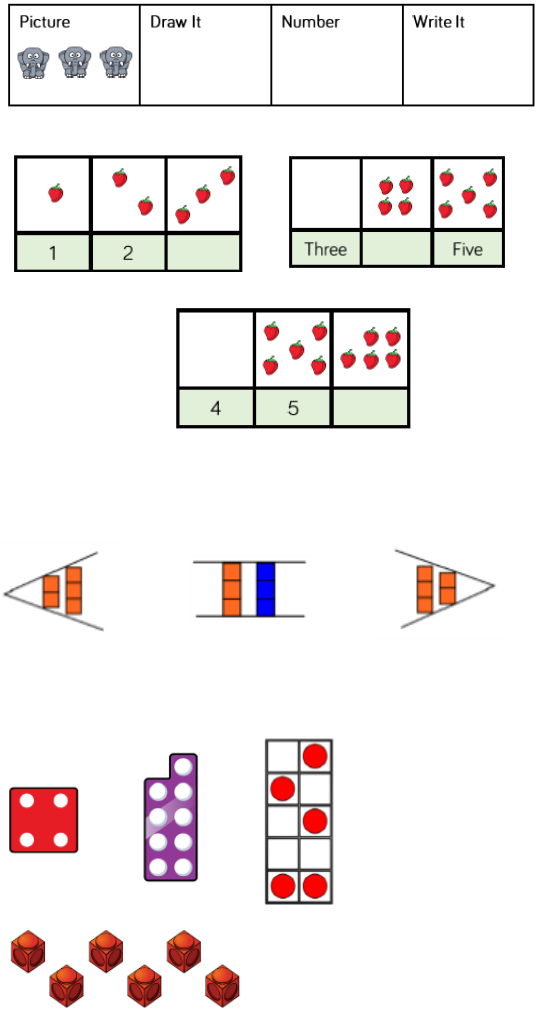
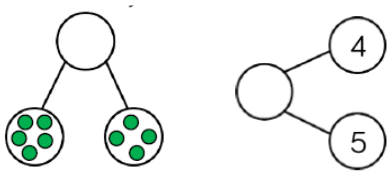
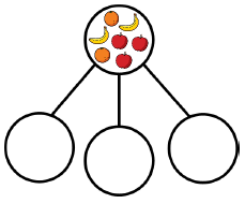
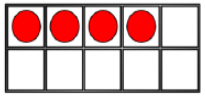
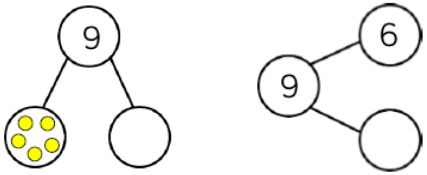
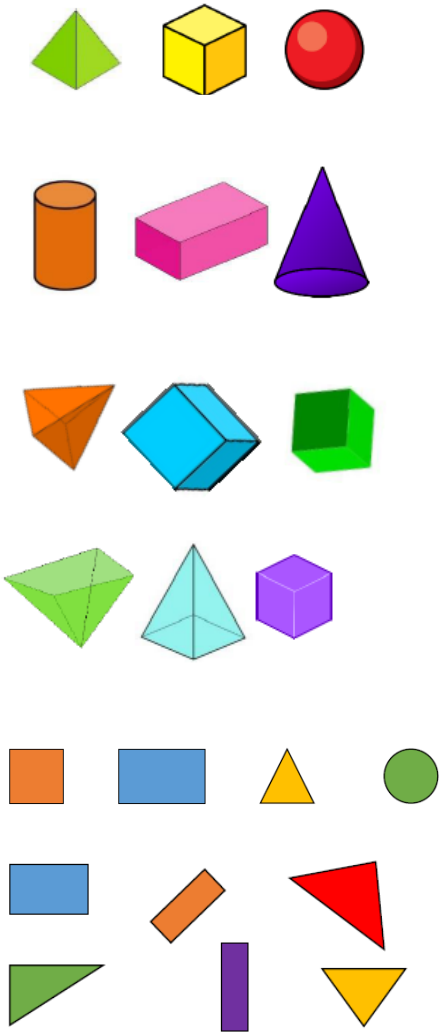
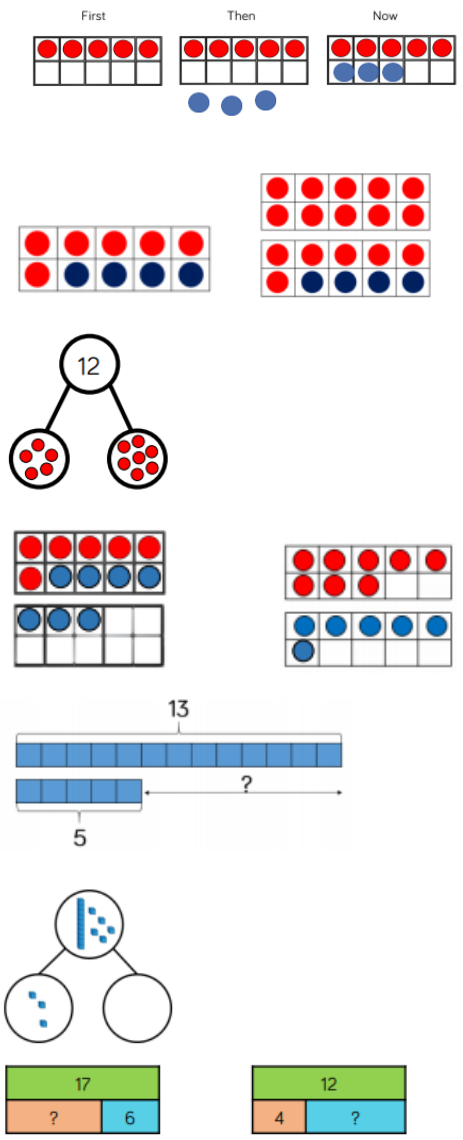
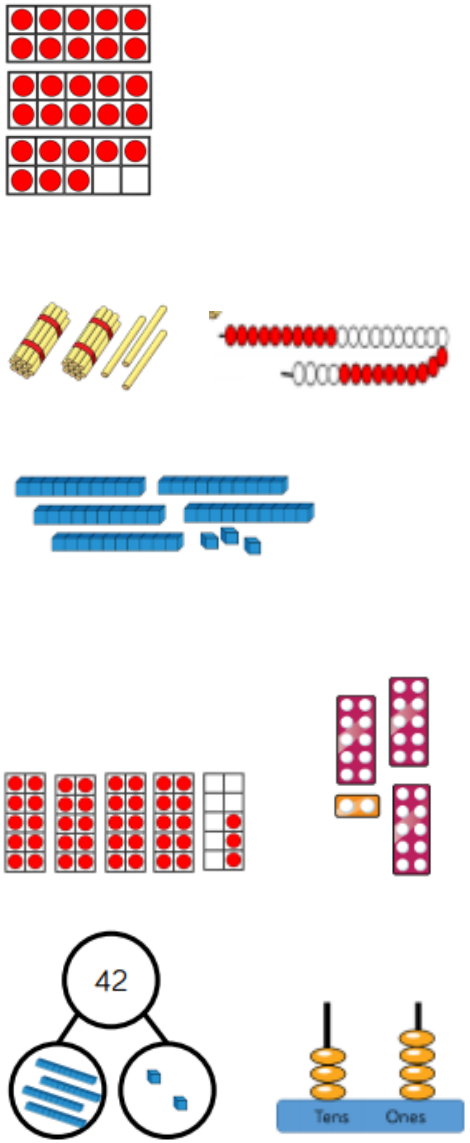
Mathematics Curriculum Progression for Year 1

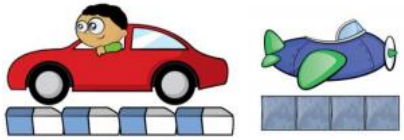
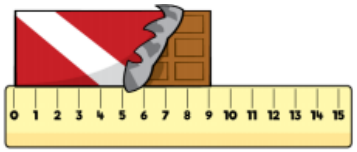
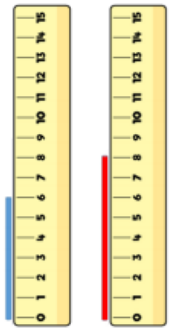
Term	Topic	Knowledge and Skills	Methods and Visual Representations	Vocabulary
1 & 2	Place Value (within 20)	Count and read numbers to 20 in numerals Count and write numbers to 20 in numerals Identify one more and one less of a given number Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least Read and write numbers from 1 to 20 in numerals Read and write numbers from 1 to 20 in words		numbers 1-20, numeral, forwards, backwards, equal to, equivalent to, most, least, many, multiple of, twos, fives, tens half-way between, above, below roughly

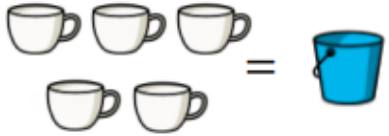
1 & 2	Addition and Subtraction (within 10)	Read and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs Write mathematical statements involving addition (+), subtraction (-) and equals (=) signs Demonstrate an understanding of the commutative law (e.g. 3 + 2 = 5, therefore 2 + 3 = 5) Demonstrate an understanding of inverse relationships involving addition and subtraction (e.g. if 3 + 2 = 5, then 5 – 2 = 3) Recall at least four of the six number bonds for 10 and reason about associated facts (e.g. 6 + 4 = 10 , therefore 4 + 6 = 10 and 10 – 6 = 4) Represent and use number bonds within 10 Represent and use subtraction facts within 10 Add one-digit and two-digit numbers to 10, including zero Subtract one-digit and two-digit numbers to 10, including zero Solve one-step problems that involve addition, subtraction and missing numbers using concrete objects and pictorial representations	     	addition, near double, half, halve, subtract, equals, is the same as, number bonds, pairs, missing number

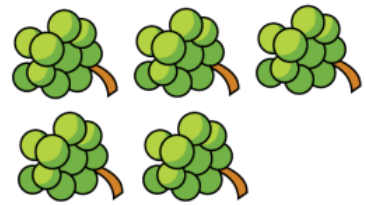
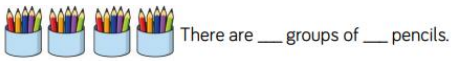
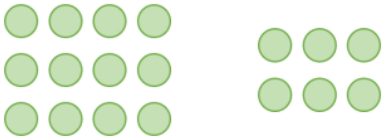
1 & 2	Geometry: Shape	Recognise and name common 2-D shapes e.g. rectangles (including squares), circles and triangles Recognise and name common 3-D shapes e.g. cuboids (including cubes), pyramids and spheres		corner, side, rectangle, square, circle, triangle, point, pointed face, edge, vertex, vertices, cuboid, cube, cylinder, sphere, pyramid, cone

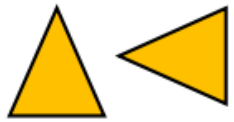
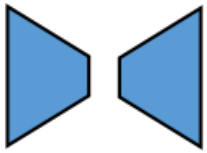
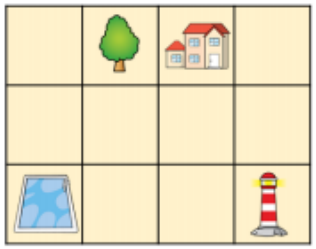
3 & 4	Addition and Subtraction (within 20)	Read and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs Write mathematical statements involving addition (+), subtraction (-) and equals (=) signs Demonstrate an understanding of the commutative law (e.g. 12 + 3 = 15, therefore 3 + 12 = 15) Demonstrate an understanding of inverse relationships involving addition and subtraction (e.g. if 12 + 3 = 15, then 15 – 3 = 12) Recall at least four of the six number bonds for 20 and reason about associated facts (e.g. 16 + 4 = 20, therefore 4 + 16 = 20 and 20 – 16 = 4) Represent and use number bonds within 20 Represent and use subtraction facts within 20 Add one-digit and two-digit numbers to 20, including zero Subtract one-digit and two-digit numbers to 20, including zero Solve one-step problems that involve addition, subtraction and missing numbers using concrete objects and pictorial representations		addition, near double, half, halve, subtract, equals, is the same as, number bonds, pairs, missing number

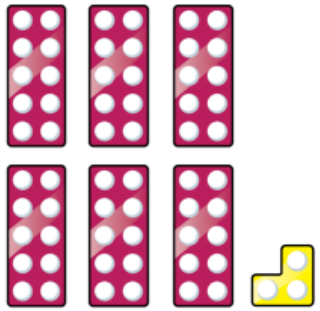
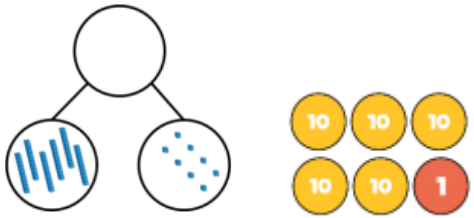
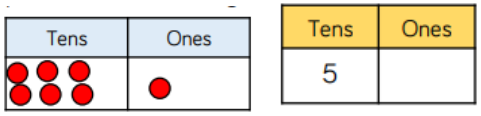
3 & 4	Place Value (within 50)	Count and read numbers to 50 in numerals Count and write numbers to 50 in numerals Identify one more and one less of a given number Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least Read and write numbers from 1 to 50 in numerals Read and write numbers from 1 to 50 in words Count in twos, fives and tens to solve problems e.g. count the number of chairs in a diagram when the chairs are organised in 7 rows of 5 by counting in fives Partition and combine numbers using apparatus if required e.g. partition 46 into tens and ones; combine 3 tens and 4 ones		numbers 1-50, numeral, forwards, backwards, equal to, equivalent to, most, least, many, multiple of, twos, fives, tens half-way between, above, below roughly

3 & 4	Measure: Length and Height	Compare, describe and solve practical problems for lengths and heights e.g. long/short, longer/shorter, tall/short, double/half Measure and begin to record length/height	  	measurement, roughly centimetre, ruler, metre stick

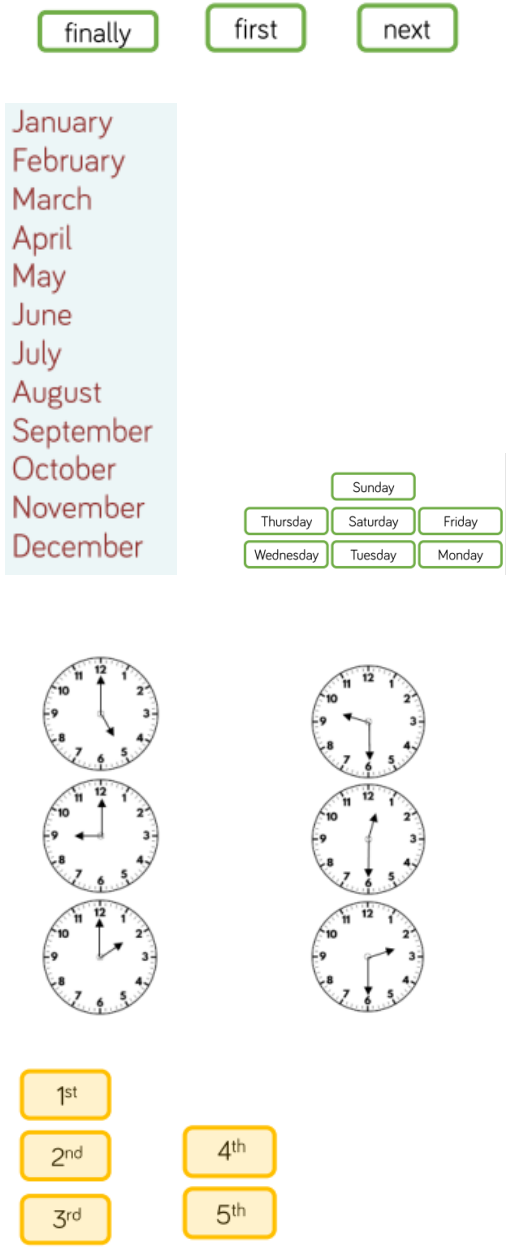
3 & 4	Measure: Weight and Volume	Compare, describe and solve practical problems for mass/weight e.g. heavy/light, heavier than, lighter than Compare, describe and solve practical problems for capacity and volume e.g. full/empty, more than, less than, half, half full, quarter Measure and begin to record mass/weight Measure and begin to record capacity and volume	   	measurement, roughly kilogram, half kilogram litre, half litre, capacity, volume, more than, less than, quarter full

5 & 6	Multiplication and Division	Solve one-step problems involving multiplication by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher Solve one-step problems involving division by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher	   	multiplication, multiply, multiple, array, division, dividing, grouping
5 & 6	Fractions	Recognise, find and name a half as one of two equal parts of an object, shape or quantity Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity	 	quarter, fraction, equal part, equal grouping, equal sharing

5 & 6	Geometry: Position and Direction	Describe position, direction and movement, including whole, half, quarter and three-quarter turns	   	underneath, centre, journey, quarter turn, three-quarter turn

5 & 6	Place Value (within 100)	Count and read numbers to 100 in numerals Count and write numbers to 100 in numerals Identify one more and one less of a given number 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 Read and write numbers from 1 to 100 in numerals Read and write numbers from 1 to 100 in words Partition and combine numbers using apparatus if required e.g. partition 76 into tens and ones; combine 5 tens and 4 ones	   	numbers 1-100, numeral, forwards, backwards, equal to, equivalent to, most, least, many, multiple of, twos, fives, tens half-way between, above, below roughly

5 & 6	Measure: Money	Recognise and know the value of different denominations of coins and notes		change, dear, cheap, cheaper, total

5 & 6	Measure: Time	Compare, describe and solve practical problems for time e.g. quicker, slower, earlier, later Measure and begin to record time (hours, minutes, seconds) Sequence events in chronological order using language e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening Recognise and use language relating to dates, including days of the week, weeks, months and years Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times		month, months of the year, season, spring, summer, autumn, winter, weekend, year, earlier, later, first, midnight, date, long ago, often, always, never, often, sometimes, usually, once, twice, half past, quarter past, quarter to, clock face, hour hand, minute hand, hours, minutes