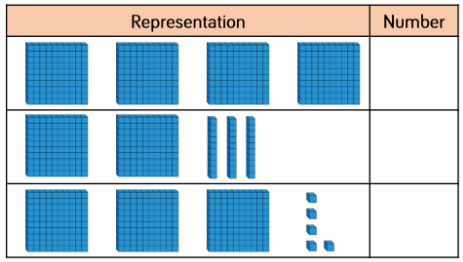
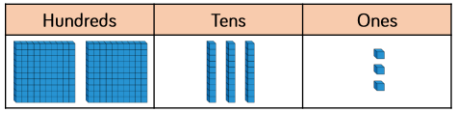
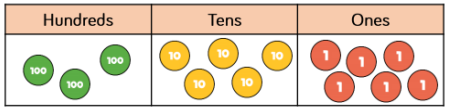
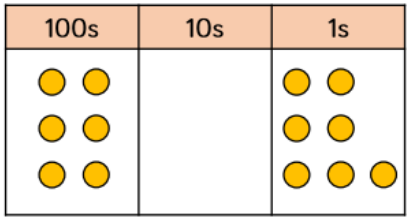
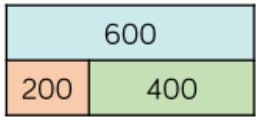
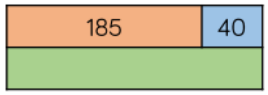
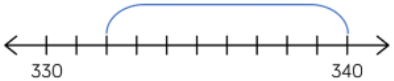
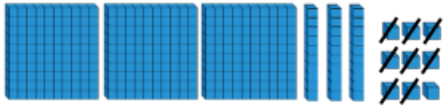
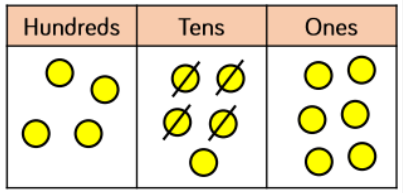
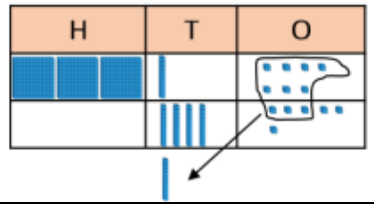
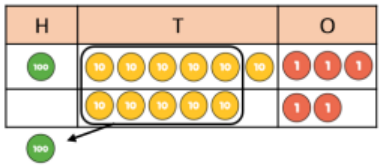
Mathematics Curriculum Progression for Year 3

Term	Topic	Knowledge and Skills	Methods and Visual Representations	Vocabulary
1 & 2	Place Value	Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number Recognise the place value of each digit in a three-digit number (hundreds, tens, ones) Compare and order numbers up to 1000 Identify, represent and estimate numbers using different representations Read and write numbers up to 1000 in numerals Read and write numbers up to 1000 in words Solve number problems and practical problems involving these ideas	    	fifties, hundreds, factor of, relationship, Roman numerals approximate, approximately, round, nearest, nearest ten, nearest hundred, round up, round down

1 & 2	Addition and Subtraction	Add and subtract numbers mentally, including a three-digit number and ones Add numbers with up to three digits using the formal method of columnar addition Add and subtract numbers mentally, including a three-digit number and tens Subtract numbers with up to three digits using the formal method of columnar subtraction Add and subtract numbers mentally, including a three-digit number and hundreds Estimate the answer to a calculation and use inverse operations to check answers Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction	     	hundreds boundary

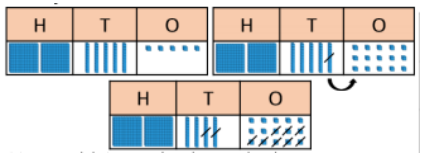
	3	1	7
+		4	6
	3	6	3

1

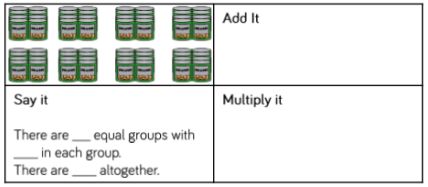
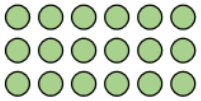
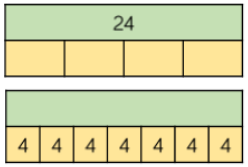
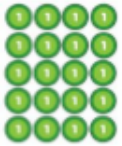
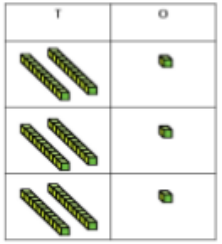


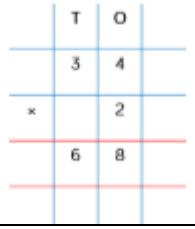
	1	6	3
+		5	2
	2	1	5

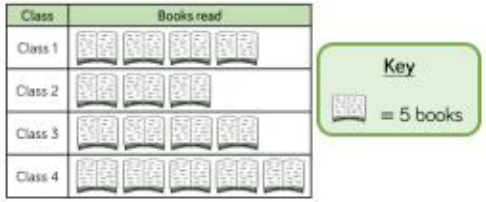
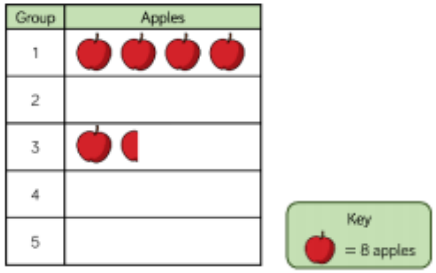
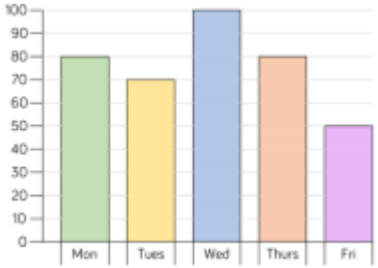
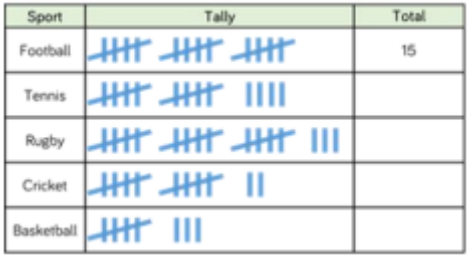
1

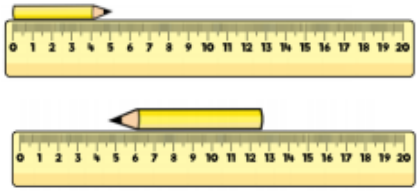
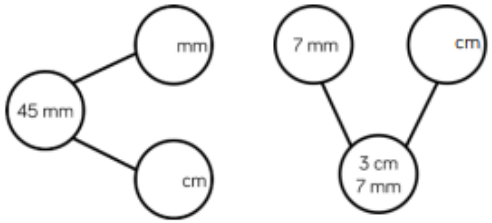


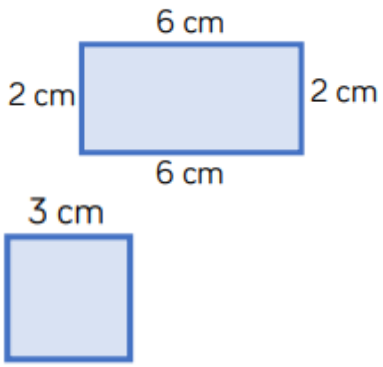
	2	$^{4}\cancel{5}$	$^{1}5$
−		2	8
	2	2	7

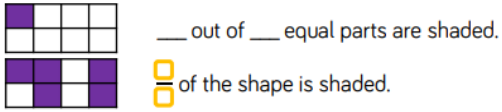
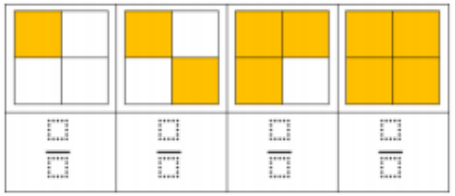
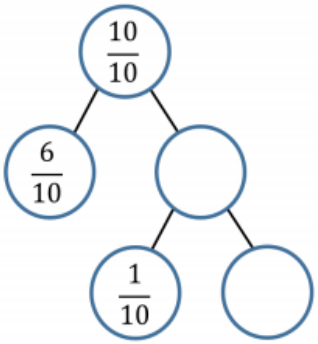
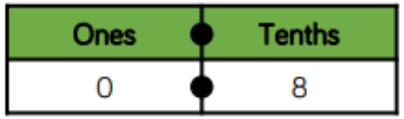
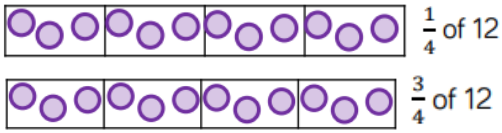
1 & 2	Multiplication and Division	Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables Write and calculate mathematical statements for multiplication and division using the multiplication tables that he/she knows, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods 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	  ___ ÷ 3 = ___  24 ÷ 4 = ___ ___ ÷ 4 = ___	factor, product, remainder
3 & 4	Multiplication and Division	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 he/she knows, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods 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	 ___ × ___ = ___ 	factor, product, remainder

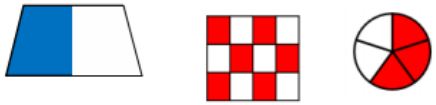
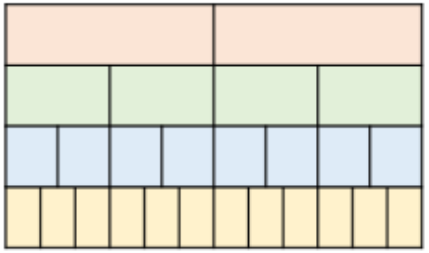
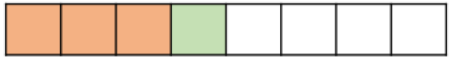
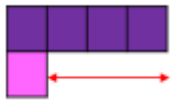
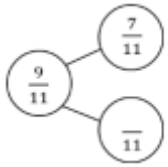
			  	
3 & 4	Measure: Money	Add and subtract amounts of money to give change, using both £ and p in practical contexts	 	

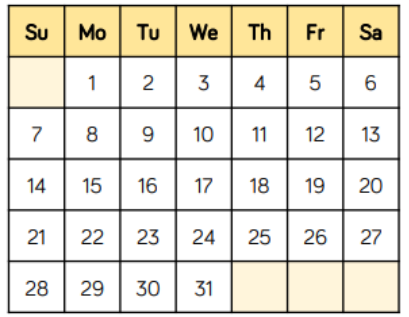
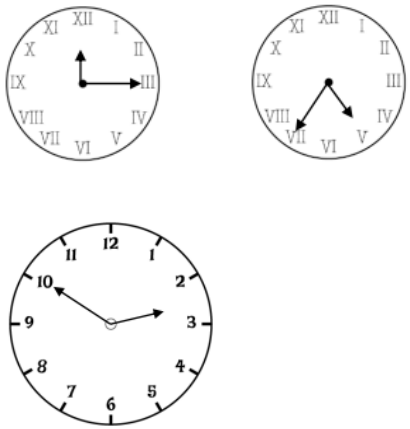
3 & 4	Statistics	Interpret and present data using bar charts, pictograms and tables Solve one-step and two-step questions e.g. 'How many more?' and 'How many fewer?' using information presented in scaled bar charts and pictograms and tables	   	chart, bar chart, frequency table, Carroll diagram, Venn diagram, axes, axis, diagram

3 & 4	Measure: Length and Perimeter	Measure, compare, add and subtract: lengths (m/cm/mm) Measure the perimeter of simple 2-D shapes	What unit of measurement would you use to measure these real life objects? Millimetres, centimetres or metres? Fingernail / Eraser / Pencil Height of a house / Length of a playground / Length of a table  120 cm 100 cm / 20 cm 1 m / 20 cm 1m 20 cm  5 m 1 m and 54 cm / ?	division, approximately millimetre, kilometre, mile, distance apart, distance between, distance to, distance from, perimeter

			 6 cm 2 cm 2 cm 6 cm 3 cm	

3 & 4	Fractions	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 Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators Solve fraction problems	    	sixths, sevenths, eighths, ninths, tenths

5 & 6	Fractions	Recognise and show, using diagrams, equivalent fractions with small denominators Add fractions with the same denominator within one whole e.g. 5/7 + 1/7 = 6/7 Subtract fractions with the same denominator within one whole e.g. 6/7 - 1/7 = 5/7 Compare and order unit fractions, and fractions with the same denominators Solve fraction problems	    We can use this model to calculate $\frac{3}{8}+\frac{1}{8}=\frac{4}{8}$   	sixths, sevenths, eighths, ninths, tenths

5 & 6	Measure: Time	Tell the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks Write the time using an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks 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 Know the number of seconds in a minute and the number of days in each month, year and leap year Compare durations of events e.g. to calculate the time taken by particular events or tasks	3rd March 2nd March January 31st 1st December Earliest — Latest Morning | Afternoon | Evening | Night   5:30 p.m. 9:45 a.m. 7:31 a.m. 10:13 p.m. 12:24 a.m. 8:55 p.m.	century, calendar, earliest, latest, a.m., p.m., Roman numerals, 12-hour clock time, 24-hour clock time

	Arrives	Leaves
London	5:50 a.m.	6:00 a.m.
Edinburgh	8:00 a.m.	8:20 a.m.
Manchester	2:33 p.m.	2:45 p.m.
Leeds	7:31 p.m.	7:35 p.m.

9 o'clock in the morning

19 : 15

Half past 3 in the afternoon

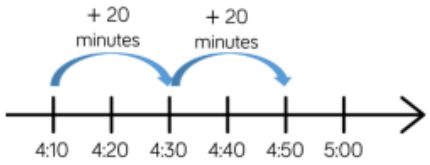
09 : 00

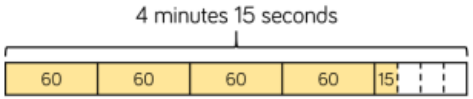
Quarter past 7 in the evening

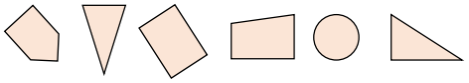
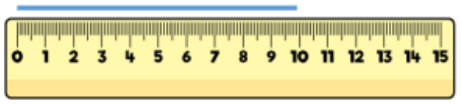
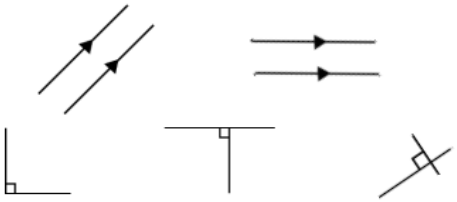
15 : 30

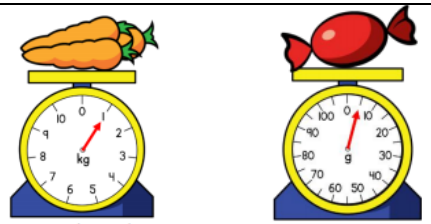
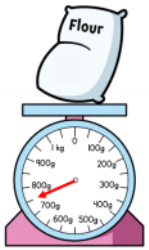
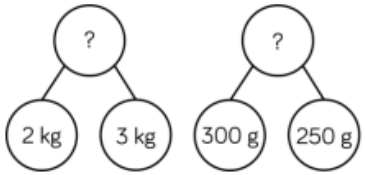
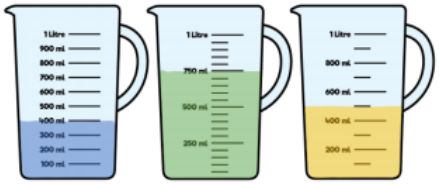
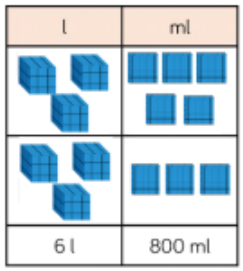
TV Programme	Start Time	Finish Time	Duration
Pals	06:30	07:30	
Dennis the explorer	15:15	18:15	
The football show	12:00	14:00	
An adventure	10:40	12:40	

Destination	Train departs	Train arrives
London	08:45	11:35
Leeds	10:05	10:33
Manchester	13:10	14:20





5 & 6	Properties of Shape	Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them Recognise angles as a property of shape or a description of a turn Identify right angles and identify whether other angles are greater or less than a right angle Recognise that two right angles make a half turn, three make three quarters of a turn and four a complete turn Identify horizontal and vertical lines and pairs of perpendicular and parallel lines	   This line measures 9 cm and 9 mm a horizontal line of symmetry, a vertical line of symmetry  	perimeter pentagonal, hexagonal, octagonal, quadrilateral, right-angled, parallel, perpendicular hemisphere, prism, triangular prism

5 & 6	Measure: Mass and Capacity	Measure, compare, add and subtract: mass (kg/g); volume/capacity (l/ml)	    	division, approximately