

COMPARING AND ESTIMATING						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
<ul> <li>compare, describe and solve practical problems for:</li> <li>* lengths and heights [e.g. long/short, longer/shorter, tall/short, double/half]</li> <li>* mass/weight [e.g. heavy/light, heavier than, lighter than]</li> <li>* capacity and volume [e.g. full/empty, more than, less than, half, half full, quarter]</li> <li>* time [e.g. quicker, slower, earlier, later]</li> </ul>	compare and order lengths, mass, volume/capacity and record the results using >, < and =		estimate, compare and calculate different measures, including money in pounds and pence (also included in Measuring)	calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm <sup>2</sup> ) and square metres (m <sup>2</sup> ) and estimate the area of irregular shapes (also included in measuring) estimate volume (e.g. using 1 cm <sup>3</sup> blocks to build cubes and cuboids) and capacity (e.g. using water)	calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm <sup>3</sup> ) and cubic metres (m <sup>3</sup> ), and extending to other units such as mm <sup>3</sup> and km <sup>3</sup> .	
sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening]	compare and sequence intervals of time	compare durations of events, for example to calculate the time taken by particular events or tasks estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight (appears also in Telling the Time)				



MEASURING and CALCULATING						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
measure and begin to record	choose and use	measure, compare, add	estimate, compare	use all four operations to	solve problems involving	
the following:	appropriate standard units	and subtract: lengths	and calculate	solve problems involving	the calculation and	
* lengths and heights	to estimate and measure	(m/cm/mm); <b>mass</b>	different measures,	measure (e.g. length,	conversion of <b>units of</b>	
* mass/weight	length/height in any	(kg/g); volume/capacity	including <b>money in</b>	mass, volume, money)	measure, using decimal	
* capacity and volume	direction (m/cm); mass	(l/ml)	pounds and pence	using decimal notation	notation up to three	
* time (hours, minutes,	(kg/g); temperature (°C);		(appears also in	including scaling.	decimal places where	
seconds)	capacity (litres/ml) to the		Comparing)		appropriate	
	nearest appropriate unit,				(appears also in Converting)	
	using rulers, scales,					
	thermometers and					
	measuring vessels					
		measure the <b>perimeter</b>	measure and	measure and calculate the	recognise that shapes	
		of simple 2-D shapes	calculate the	perimeter of composite	with the same areas can	
			perimeter of a	rectilinear shapes in	have different perimeters	
			rectilinear figure	centimetres and metres	and vice versa	
			(including squares) in			
			centimetres and			
			metres			



	MEASURING and CALCULATING						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
recognise and know the value of different denominations of coins and notes	recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value find different combinations of coins that equal the same amounts of money solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change	add and subtract amounts of <b>money</b> to give change, using both £ and p in practical contexts	find the area of rectilinear shapes by counting squares	calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm <sup>2</sup> ) and square metres (m <sup>2</sup> ) and estimate the area of irregular shapes recognise and use square numbers and cube numbers, and the notation for squared ( <sup>2</sup> ) and	calculate the area of parallelograms and triangles calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm <sup>3</sup> ) and cubic metres (m <sup>3</sup> ), and extending to other units [e.g. mm <sup>3</sup> and km <sup>3</sup> ].		



			<i>cubed</i> ( <sup>3</sup> ) (copied from Multiplication and Division)		recognise when it is possible to use formulae for area and volume of shapes		
	TELLING THE TIME						
Year 1	Year 2	Year 3	Year 4	Year 5		Year 6	
tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.	tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.	tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks	read, write and convert time between analogue and digital 12 and 24-hour clocks (appears also in Converting)				
recognise and use language relating to dates, including days of the week, weeks, months and years	know the number of minutes in an hour and the number of hours in a day. (appears also in Converting)	estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes, hours and o'clock; use vocabulary such as a.m./p.m., morning, afternoon, noon and midnight (appears also in Comparing and Estimating)					
			solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days (appears also in Converting)	solve problems converting betw of time	-		



	CONVERTING							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
	know the number of minutes in an hour and the number of hours in a day. (appears also in Telling the Time)	know the number of seconds in a minute and the number of days in each month, year and leap year	convert between different units of measure (e.g. kilometre to metre; hour to minute)	convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)	use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places			
			read, write and convert time between analogue and digital 12 and 24-hour clocks (appears also in Converting)	solve problems involving converting between units of time	solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate (appears also in Measuring and Calculating)			
			solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days (appears also in Telling the Time)	understand and use equivalences between metric units and common imperial units such as inches, pounds and pints	convert between miles and kilometres			