



0-3 YEARS	NURSERY	RECEPTION	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
<b>COMPARING AND ESTIMATING</b>								
Combine objects like stacking blocks and cups	Make comparisons between objects relating to size, weight, length and capacity	Compare length, weight and capacity	compare, describe and solve practical problems for: * lengths and heights [e.g. long/short, longer/shorter, tall/short, double/half] * mass/weight [e.g. heavy/light, heavier than, lighter than] * capacity and volume [e.g. full/empty, more than, less than, half, half full, quarter] * time [e.g. quicker, slower, earlier, later]	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)	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> .
Put objects inside others and take them out again			sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday,	compare and sequence intervals of time	compare durations of events, for example to calculate the time taken by particular events or tasks		estimate volume (e.g. using 1 cm <sup>3</sup> blocks to build cubes and cuboids) and capacity (e.g. using water)	



			tomorrow, morning, afternoon and evening]					
Climb and squeeze themselves into different types of spaces					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)			
Compare sizes, weights etc, using gesture and language – 'bigger/little/smaller', 'high/low', 'tall', 'heavy'								
Build with a range of resources								

## PROGRESSIONS OF SKILLS FOR MATHS Measurement

### MEASURING AND CALCULATING

			<p>measure and begin to record the following:</p> <ul style="list-style-type: none"> <li>* <b>lengths and heights</b></li> <li>* <b>mass/weight</b></li> <li>* <b>capacity and volume</b></li> <li>* <b>time</b> (hours, minutes, seconds)</li> </ul>	<p>choose and use appropriate standard units to estimate and measure <b>length/height</b> in any direction (m/cm); <b>mass</b> (kg/g); <b>temperature</b> (°C); <b>capacity</b> (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels</p>	<p>measure, compare, add and subtract:</p> <p><b>lengths</b> (m/cm/mm); <b>mass</b> (kg/g); <b>volume/capacity</b> (l/ml)</p>	<p>estimate, compare and calculate <b>different measures</b>, including <b>money in pounds and pence</b> (appears also in Comparing)</p>	<p>use all four operations to solve problems involving measure (e.g. <b>length, mass, volume, money</b>) using decimal notation including scaling.</p>	<p>solve problems involving the calculation and conversion of <b>units of measure</b>, using decimal notation up to three decimal places where appropriate (appears also in Converting)</p>
					<p>measure the <b>perimeter</b> of simple 2-D shapes</p>	<p>measure and calculate the <b>perimeter</b> of a rectilinear figure (including squares) in centimetres and metres</p>	<p>measure and calculate the <b>perimeter</b> of composite rectilinear shapes in centimetres and metres</p>	<p>recognise that shapes with the same areas can have different <b>perimeters</b> and vice versa</p>
			<p>recognise and know the value of different denominations of <b>coins and notes</b></p>	<p>recognise and use symbols for pounds (<b>£</b>) and <b>pence (p)</b>; combine amounts to</p>	<p>add and subtract amounts of <b>money</b> to give change, using both £ and p in</p>	<p>find the area of rectilinear shapes by counting squares</p>	<p>calculate and compare the area of squares and rectangles including using standard units,</p>	<p>calculate the area of parallelograms and triangles</p>



				make a particular value	practical contexts		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 cubed ( <sup>3</sup> ) (copied from Multiplication and Division)	
				find different combinations of coins that equal the same amounts of money				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

## PROGRESSIONS OF SKILLS FOR MATHS

### Measurement

								[e.g. mm <sup>3</sup> and km <sup>3</sup> ].
				<p><b>solve simple problems</b> in a practical context involving addition and subtraction of money of the same unit, including giving change</p>				<p>recognise when it is possible to use formulae for area and volume of shapes</p>
<b>TELLING THE TIME</b>								
			<p>tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.,</p>	<p>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.</p>	<p>tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks</p>	<p>read, write and convert time between analogue and digital 12 and 24-hour clocks (appears also in Converting)</p>		
			<p>recognise and use language relating to dates, including days of the week, weeks, months and years</p>	<p>know the number of minutes in an hour and the number of hours in a day. (appears also in Converting)</p>	<p>estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of</p>	<p>solve problems involving converting from hours to minutes; minutes to seconds; years to months;</p>	<p>solve problems involving converting between units of time</p>	

## PROGRESSIONS OF SKILLS FOR MATHS Measurement

					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)	weeks to days (appears also in Converting)		
<b>CONVERTING</b>								
				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	solve problems involving converting between units of time	solve problems involving the calculation and conversion of units of



						24-hour clocks (appears also in Converting)		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

**VOCABULARY**

bigger, smaller, little, high, tall, low, heavy, light	bigger, smaller, little, high, tall, low, heavy, light, height, length, weight	bigger, smaller, little, high, tall, low, heavy, light, length, height, weight, capacity	Full, half, empty  Holds  Container  Weight, balances  Heavy, heavier, heaviest	Unit of Measurement  Scales  Length  Height  Volume  Capacity	Perimeter  m/cm/mm  kg/g  l/ml  Twelve/twenty- four-hour clock  Am, pm  Roman	Convert	Convert  Volume  Imperial measures/units  Metric measures/units  Square metres (m <sup>2</sup> )	Twelve/twenty- four-hour clock  Am, pm  Roman numerals I to XIII  Convert  Volume
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## PROGRESSIONS OF SKILLS FOR MATHS Measurement

			Light, lighter, lightest	<, >, =	numerals I to XIII		Square centimetres (cm <sup>2</sup> )	Cubic centimetres (cm <sup>3</sup> )
			Days of the week	Quarter past			Equivalences	Cubic metres (m <sup>3</sup> )
			Seasons	Quarter to			Estimate	Imperial measures/units
			Day, week, months, year, weekend	Km, m				Metric measures/units
			Morning, afternoon, evening	Kg, g				
			Hour, o clock, half past	MI, I				
			Mass/weight	Temperature				
			Capacity/volume	Degrees				
				Holds				
				Container				
				Weight, balances				
				Heavy, heavier, heaviest				