Measurement

		EY	'FS		
Showing awareness of comparis Comparing indirectly e.g. Will th	ous quantities e.g. longer/shorter son in estimating and predicting	r, heavier/lighter	ΥFS .		
Beginning to use units to compo					
Beginning to use time to sequer	0				
Beginning to experience differe	nt time durations				
		COMPARING A	ND ESTIMATING		
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
 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] Spring 3 & 4 Summer 6 	compare and order lengths, mass, volume/capacity and record the results using >, < and = Spring 5 Summer 4		estimate, compare and calculate different measures, including money in pounds and pence (also included in Measuring) Autumn 3 Spring 2 Summer 3	calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm ²) and square metres (m ²) and estimate the area of irregular shapes (also included in measuring) Autumn 5 Summer 5 estimate volume (e.g. using 1 cm ³ 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 ³) and cubic metres (m ³), and extending to other units such as mm ³ and km ³ . Spring 5

full, quarter] * time [e.g. quicker, slower, earlier, later] Spring 3 & 4 Summer 6			estimate volume (e.g. using 1 cm ³ blocks to build cubes and cuboids) and capacity (e.g. using water) Autumn 5 Summer 5	
sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] Summer 6	compare and sequence intervals of time Summer 3	compare durations of events, for example to calculate the time taken by particular events or tasks Summer 2		
		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) Summer 2		

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

		MEASURING ar	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 Summer 5	recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value Autumn 3 find different combinations of coins that equal the same amounts of money Autumn 3 solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change Autumn 3	add and subtract amounts of money to give change, using both £ and p in practical contexts Spring 2	find the area of rectilinear shapes by counting squares Autumn 3 Spring 2	calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm ²) and square metres (m ²) and estimate the area of irregular shapes Autumn 5 Summer 5 recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³) (copied from Multiplication and Division)	calculate the area of parallelograms and triangles Spring 5 calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm ³) and cubic metres (m ³), and extending to other units [e.g. mm ³ and km ³]. Spring 5 recognise when it is possible to use formulae for area and volume of shapes Spring 5		

	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. Summer 6	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. Summer 3	tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks Summer 2	read, write and convert time between analogue and digital 12 and 24-hour clocks (appears also in Converting) Summer 3			
recognise and use language relating to dates, including days of the week, weeks, months and years Summer 6	know the number of minutes in an hour and the number of hours in a day. (appears also in Converting) Summer 3	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) Summer 2				
			solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days (appears also in Converting) Summer 3	solve problems involving converting between units of time Summer 4		

	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) Summer 3	know the number of seconds in a minute and the number of days in each month, year and leap year Summer 2	convert between different units of measure (e.g. kilometre to metre; hour to minute) Autumn 3 Spring 2 Summer 3	convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; gram and kilogram; litre and millilitre) Summer 1,4 & 5	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 Spring 4		
			read, write and convert time between analogue and digital 12 and 24-hour clocks (appears also in Converting) Summer 3	solve problems involving converting between units of time Summer 4	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) Spring 4		
			solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days (appears also in Telling the Time) Summer 3	understand and use equivalences between metric units and common imperial units such as inches, pounds and pints Summer 1, 4 & 5	convert between miles and kilometres Spring 4		