

		CON	PARING AND ESTIMAT	ΓING		
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
EYFS ELG - Children use everyday language to talk about size, weight, capacity, position, distance, time and money to compare quantities and objects and to solve problems.	Year 1 Compare, describe and solve practical problems for: * lengths and heights [e.g. long/short, longer/shorter, tall/short, double/half] Small world toys			T	rectangles including using standard units, square centimetres (cm ²) and square metres (m ²) and estimate the area of irregular shapes (also included in	Year 6 calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm³) and cubic metres (m³), and extending to other units such as mm³ and km³.
					measuring) Coloured card Squared paper Bar models Part whole models	mm and km. Cubes 3-D shapes Meter rulers
	Compare, describe and solve practical problems for: * mass/weight [e.g. heavy/light, heavier than, lighter than]	Compare and order, mass and record the results using >, < and = Balancing scales			estimate volume using 1 cm ³ blocks to build cubes and cuboids Cubes	



	Balancing scales				
Measure short periods of time in simple ways	Compare, describe and solve practical problems for: * capacity and volume [e.g. full/empty, more than, less than, half, half full, quarter]	Compare and order volume/capacity and record the results using >, < and = Bottles of liquid Measuring cylinders		estimate volume and capacity (e.g. using water) Cubes Measuring cylinders	
	Compare, describe and solve practical problems for: *time [e.g. quicker, slower, earlier, later]				



Order and sequences familiar events.	sequence events in chronological order using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] Visual aids of events	compare and sequence intervals of time Clocks	compare durations of events, for example to calculate the time taken by particular events or tasks Clocks Stopwatch Calendars 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			
			(appears also in Telling the Time)			
		MEA	ASURING and CALCULA	TING		
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Order two or three	Measure and begin	choose and use	measure lengths	estimate, compare	use all four	solve problems



items by length or	to record the	appropriate	(m/cm/mm);	and calculate	operations to solve	involving the
height.	following:	standard units to	Tape measure	different measures,	problems involving	calculation and
	* lengths and	estimate and	Rulers	including money in	measure (e.g.	conversion of units
	heights	measure		pounds and pence	length, mass,	of measure, using
	Metre rulers	length/height in any		(appears also in	volume, money)	decimal notation up
	Rulers	direction (m/cm) to		Comparing)	using decimal	to three decimal
	Tape measures	the nearest		Coins	notation including	places where
		appropriate unit,		Notes	scaling.	appropriate
		using rulers, scales,		Part whole		(appears also in
		thermometers and		Bar models		Converting)
		measuring vessels		Number lines		
Order two items by		Metre rulers	Compare lengths	calculate different		
weight or capacity		Rulers	(m/cm/mm);	measures of mass		
		Tape measures		Weighing scales		
				Bar models		
				Number line		
	Measure and begin	choose and use	add and subtract:	calculate different		
	to record the	appropriate	lengths (m/cm/mm);	measures of volume		
	following:	standard units to	Bar models	Measuring cylinders		
	* mass/weight	estimate and	Part whole	Bar models		
	Weighing scales	measure mass (kg/g)	Column	Number line		
	(simple scale)	to the nearest				
		appropriate unit,	measure, mass	calculate different		
		using rulers, scales,	(kg/g);	measures of height		
		thermometers and	Scales	and length		
		measuring vessels				



		Weighing scales		Rulers		
		(simple scale)		Bar model		
Me	easure and begin	Choose and use	compare, add and			
toı	record the	appropriate	subtract: mass			
foll	lowing:	standard units to	(kg/g);			
* (capacity and	estimate and	Bar models			
,	volume	measure capacity	Column			
Me	easuring cylinders	(litres/ml) to the	Scales			
		nearest appropriate	measure,			
		unit, using rulers,	volume/capacity			
		scales,	(l/ml)			
		thermometers and	Beakers			
		measuring vessels	Bar models			
		Measuring cylinders				
Me	easure and begin	choose and use	compare, add and			
toı	record the	appropriate	subtract:			
foll	lowing:	standard units to	volume/capacity			
* -	time (hours,	estimate and	(I/mI)			
	minutes,	measure	Beakers			
	seconds)	temperature (°C) to	Bottles			
Sto	pwatches	the nearest	Bar model			
		appropriate unit,	Column			
		using rulers, scales,	Part whole			
		thermometers and	measure the	measure and	measure and	recognise that
		measuring vessels	perimeter of simple	calculate the	calculate the	shapes with the



Thermome	eters 2-D shape	es perimeter of a	perimeter of	same areas can have
	Column	rectilinear figure	composite	different perimeters
		(including squares)	rectilinear shapes in	and vice versa
		in centimetres and	centimetres and	Squared paper
		metres	metres	
		Bar models	Squared paper	
			Rulers	





		MEA	ASURING and CALCULA	TING		
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Beginning to use	Recognise and know	recognise and use	add amounts of	Estimate, compare		
everyday language	the value of	symbols for pounds	money to give	and calculate money		
related to money	different	(£) and pence (p);	change, using both £	in pounds and		
	denominations of	combine amounts to	and p in practical	pence.		
	coins and notes	make a particular	contexts	Coins		
	Coins	value	Coins	Bar models		
	Base 10	Coins	Notes	Part wholes		
		Base 10 –	Part Wholes	100 squares		
		understand value		Number lines		
		amounts.				
		find different	subtract amounts of			
		combinations of	money to give			
		coins that equal the	change, using both £			
		same amounts of	and p in practical			
		money	contexts			
		Coins	Coins			
		Base 10 –	Notes			
		understand value	Part Wholes			
		amounts.				
		solve simple				



	problems in a	find the area of	calculate and	calculate the area of
	practical context	rectilinear shapes by	compare the area of	parallelograms and
	involving addition	counting squares	squares and	triangles
	and subtraction of	Coloured card	rectangles including	Squared paper
	money of the same	Squared paper	using standard units,	Coloured card
	unit, including giving		square centimetres	
	change		(cm ²) and square	
	Bar model		metres (m ²) and	
	Coins		estimate the area of	
	Base 10 –		irregular shapes	
	understand value		recognise and use	calculate, estimate
	amounts.		square numbers and	and compare
			cube numbers, and	volume of cubes and
			the notation for	cuboids using
			squared $\binom{2}{1}$ and	standard units,
			cubed (³)	including cubic
			(copied from	centimetres (cm ³)
			Multiplication and	and cubic metres
			Division)	(m ³), and extending
			Bivision	to other units [e.g.
				mm ³ and km ³].
				recognise when it is
				possible to use
				formulae for area
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						and volume of shapes
			TELLING THE TIME			<u>'</u>
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Measures short	tell the time to the	tell and write the	tell and write the	read analogue and	solve problems	
periods of time in	hour and draw the	time to quarter	time from an	digital 12 and 24-	involving converting	
simple ways.	hands on a clock	past/to the hour and	analogue clock,	hour clocks	between units of	
	face to show these	draw the hands on a	including using	(appears also in	time	
	times.	clock face to show	Roman numerals	Converting)	Part wholes	
	Clocks	these times.	from I to XII, and 12-	Number lines	Bar models	
		Clocks	hour and 24-hour	Digital clocks	Calendars	
			clocks	Analogue clocks		
	tell the time half	tell and write the	Clocks	convert time		
	past the hour and	time to five minutes	Watches	between analogue		
	draw the hands on a	and draw the hands	Digital clocks	and digital 12 and		
	clock face to show	on a clock face to		24-hour clocks		
	these times.	show these times.		(appears also in		
	Clocks	Clocks		Converting)		
				Digital clocks		
				Analogue clocks		



Uses everyday	recognise and use	know the number of	estimate and read	solve problems	
language related to	language relating to	minutes in an hour	time with increasing	involving converting	
time.	dates, including days	and the number of	accuracy to the	from hours to	
	of the week, weeks,	hours in a day.	nearest minute;	minutes; minutes to	
	months and years	(appears also in	record and compare	seconds; years to	
		Converting)	time in terms of	months; weeks to	
			seconds, minutes,	days	
			hours and o'clock;	(appears also in	
			use vocabulary such	Converting)	
			as a.m./p.m.,		
			morning, afternoon,		
			noon and midnight		
			(appears also in		
			Comparing and		
			Estimating)		
			Clocks		
			Stopwatches		
			Number lines		
			Digital clocks		
			Partitioning		





			CONVERTING			
EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Teal I	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 mass Bar models Weighing scales convert between different units of volume Number lines Bar models convert between different units of	convert between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre) Rulers Part wholes convert between different units of metric measure (e.g. gram and kilogram; litre and millilitre) Weighing scales Part wholes	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
				length Bar models	Bar models Weights	
				read, write and convert time between analogue	solve problems involving converting between units of	solve problems involving the calculation and

Black – The objective

Blue – The manipulatives that need to be used

Orange – Taught discretely or taught during mental maths/rapid recall

Purple – Covered in within other lessons/objectives.



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			and digital 12 and	time	conversion of units
			24-hour clocks		of measure, using
					decimal notation up
					to three decimal
					places where
					appropriate
					(appears also in
					Measuring and
					Calculating)
			solve problems	understand and use	convert between
			involving converting	equivalences	miles and
			from hours to	between metric	kilometres
			minutes; minutes to	units and common	Graph paper
			seconds; years to	imperial units such	
			months; weeks to	as inches, pounds	
			days	and pints	
			Number lines		