

	VOCABULARY								
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6				
Estimate, close to, about the same as,	Quarter past/to	Leap year	Convert	Volume	Yard, foot, feet, inch,				
just over, just under	Five, ten, fifteen	Twelve-hour/twenty-	Metric unit	Imperial units, metric	inches				
Too many, too few, not enough, enough	minutes past/to	four-hour clock	Area	units	Circumference				
Too many, too few, not enough, enough Length Length, width, height, depth Long, longer, longest, short, shorter shortest, tall, taller, tallest, high, higher, highest Low, wide, narrow, deep, shallow, thick, thin Far, near, close Metre, ruler, metre stick Weight Weight Weigh, weighs, balances Heavy, heavier, heaviest, light, lighter, lightest Scales Capacity/volume Holds Container Full, half full, empty	minutes past/to m/km, g/kg, ml/l Temperature (degrees) Further, furthest Tape measure Digital/analogue Clock/watch, timer Seconds Bought, sold Temperature, degree	four-hour clock Roman numerals I to XII Approximately Distance apart Between, to, from Perimeter Century Calendar Earliest, latest A.m., p.m.		· ·	Circumference Tonne, pound, ounce Centilitre Cubic centimetres (cm³), cubic metres (m³), cubic millimetres (mm³), cubic kilometres (km³) Greenwich Mean Time, British Summer Time, International Date Line Profit, loss				
<i>Time</i> Days of the week: Monday, Tuesday, etc.									
winter Day, week, month, year, weekend									



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Birthday, holiday			
Morning, afternoon, evening, night, midnight			
Bedtime, dinnertime, playtime			
Today, yesterday, tomorrow			
Before, after			
Next, last			
Now, soon, early, late			
Quick, quicker, quickest, quickly, fast, faster, fastest, slow, slower, slowest, slowly			
Old, older, oldest, new, newer, newest			
Takes longer, takes less time			
Hour, o'clock, half past, minute			
Clock, watch, hands			
How long ago?, how long will it be to?, how long will it take to?, how often?			
Always, never, often, sometimes, usually			
Once, twice			
First, second, third, etc.			
Money			
Money, coin, penny, pence, pound, price, cost, buy, sell, spend, spent, pay, change, dear(er), costs more, costs less, cheaper, costs the same as			
How much?, how many?			
Total			



Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		COMPARING AN	D ESTIMATING		
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 (cm²) and square metres (m²) and estimate the area of irregular shapes (also included in measuring) estimate volume (e.g. using 1 cm³ 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 (cm³) and cubic metres (m³), and extending to other units such as mm³ and km³.
Top tips How do you know that this (object) is heavier / longer / taller than this one? Explain how you know.	Top tips Put these measurements in order starting with the smallest. 75 grammes 85 grammes 100 grammes Explain your thinking Position the symbols Place the correct symbol between the measurements > or < 36cm 63cm	Top Tips Put these measurements in order starting with the largest. Half a litre Quarter of a litre 300 ml Explain your thinking Position the symbols Place the correct symbol between the measurements > or <	Top Tips Put these amounts in order starting with the largest. Half of three litres Quarter of two litres 300 ml Explain your thinking Position the symbols Place the correct symbols between the measurements > or < f23.61 2326p 2623p	Top Tips Put these amounts in order starting with the largest. 130000cm² 1.2 m² 13 m² Explain your thinking	Top Tips Put these amounts in order starting with the largest. 100 cm³ 1000000 mm³ 1 m³ Explain your thinking



	130ml 103ml Explain your thinking	306cm Half a metre 930 ml Ilitre Explain your thinking	Explain your thinking		
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)			
Explain thinking Ask pupils to reason and make statements about to the order of daily routines in school e.g. daily timetable e.g. we go to PE after we go to lunch. Is this true or false?	Undoing The film finishes two hours after it starts. It finishes at 4.30. What time did it start? Draw the clock at the start and the finish of the film.	Undoing A programme lasting 45 minutes finishes at 5.20. At what time did it start? Draw the clock at the start and finish time.	Undoing Imran's swimming lesson lasts 50 mins and it takes 15 mins to change and get ready for the lesson. What time does Imran need to arrive if his lesson finishes at 6.15pm?	Undoing A school play ends at 6.45pm. The play lasted 2 hours and 35 minutes. What time did it start?	Undoing A film lasting 200 minutes finished at 17:45. At what time did it start?



What do we do before break time? etc.	Explain thinking The time is 3:15pm. Kate says that in two hours she will be at her football game which starts at 4:15. Is Kate right? Explain why.	Explain thinking Salha says that 100 minutes is the same as 1 hour. Is Salha right? Explain why.	Explain thinking The time is 10:35 am. Jack says that the time is closer to 11:00am than to 10:00am. Is Jack right? Explain why.	Other possibilities (links with geometry, shape and space) A cuboid is made up of 36 smaller cubes. If the cuboid has the length of two of its sides the same what could the dimensions be? Convince me	Other possibilities (links with geometry, shape and space) A cuboid has a volume between 200 and 250 cm cubed. Each edge is at least 4cm long. List four possibilities for the dimensions of the cuboid
measure and begin to record the following: * lengths and heights * mass/weight * capacity and volume * time (hours, minutes, seconds)	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	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)	estimate, compare and calculate different measures, including money in pounds and pence (appears also in Comparing)	use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation including scaling.	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)
Application (Can be practical) Which two pieces of string are the same length as this book?	Application (Practical) Draw two lines whose lengths differ by 4cm.	Write more statements (You may choose to consider this practically) If there are 630ml of water in a jug. How much water do you need to add	Write more statements One battery weighs the same as 60 paperclips; One pencil sharpener weighs the same as 20 paperclips.	Write more statements Mr Smith needs to fill buckets of water. A large bucket holds 6 litres and a small bucket holds 4 litres.	Write more statements Chen, Megan and Sam have parcels. Megan's parcel weighs 1.2kg and Chen's parcel is 1500g and Sam's parcel is half



	to end up with a litre of water? What if there was 450 ml to start with? Make up some more questions like this	Write down some more things you know. How many pencil sharpeners weigh the same as a battery?	If a jug holds 250 ml and a bottle holds 500 ml suggest some ways of using the jug and bottle to fill the buckets.	the weight of Megan's parcel. Write down some other statements about the parcels. How much heavier is Megan's parcel than Chen's parcel?
	measure the perimeter of simple 2-D shapes	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres	recognise that shapes with the same areas can have different perimeters and vice versa
	Testing conditions A square has sides of a whole number of centimetres. Which of the following measurements could represent its perimeter?8cm 18cm 24cm 25cm	Testing conditions If the width of a rectangle is 3 metres less than the length and the perimeter is between 20 and 30 metres, what could the dimensions of the rectangle lobe? Convince me.	Testing conditions Shape A is a rectangle that is 4m long and 3m wide. Shape B is a square with sides 3m. The rectangles and squares are put together side by side to make a path which has perimeter between 20 and 30 m. For example Can you draw some other arrangements where the perimeter is	Testing conditions A square has the perimeter of 12 cm. When 4 squares are put together, the perimeter of the new shape can be calculated. For example: What arrangements will give the maximum perimeter?



				between 20 and 30	
				metres?	
recognise and know the	recognise and use symbols	add and subtract amounts			
value of different	for pounds (£) and pence	of money to give change,			
denominations of coins	(p); combine amounts to	using both £ and p in			
and notes	make a particular value	practical contexts			
	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				
Possibilities	Possibilities	Possibilities	Possibilities		
		I bought a book which	Adult tickets cost £8 and		
Ella has two silver coins.	How many different ways	cost between £9 and £10	Children's tickets cost £4.		
How much money might	can you make 63p using	and I paid with a ten	How many adult and		
she have?	only 20p, 10p and 1p	pound note.	children's tickets could I		
	coins?	My change was between	buy for £100 exactly?		
		50p and £1 and was all in	Can you find more than one		
		silver coins.	way of doing this?		
		What price could I have			
		paid?			



find the area of rectilinear shapes by counting squares	calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes 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 calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [e.g. mm³ and km³]. recognise when it is possible to use formulae for area and volume of shapes
Always, sometimes, never If you double the area of a rectangle, you double the perimeter. See also Geometry Properties of Shape	Always, sometimes, never When you cut off a piece of a shape you reduce its area and perimeter. See also Geometry Properties of Shape	Always, sometimes, never The area of a triangle is half the area of the rectangle that encloses it:



					See also Geometry Properties of Shape
		TELLING '	THE TIME		
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 involving converting between units of time	



Draw han faces to si started ar	backwards Tom's bus journed half an hour. He his destination a what time did his leave? 9:05 8:55 8:4	eytakes arrives at in order, starting with the set of t	he in order starting with the longest time. e 105 minutes 1 hour 51 minutes	
		CONVERTING		
minutes in the numb day.	n number of seconds in a min the number of d each month, year	units of measure (e.g. kilometre to metre; ho	different units of metric	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 convertime between analogue and digital 12 and 24-h clocks (appears also in Converting)	converting between units our 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 involvir converting from hours		convert between miles and kilometres



		minutes; minutes to seconds; years to months; weeks to days (appears also in Telling the Time)	metric units and common imperial units such as inches, pounds and pints	
The answer is	The answer is	The answer is	The answer is	The answer is
3 hours What is the question?	25 minutes What is the question?	225 metres What is the question?	0.3km What is the question?	24 metres cubed What is the question?
What do you notice?	What do you notice?	What do you notice?	What do you notice?What do you	What do you notice?8 km = 5 miles
What do you notice? 1 hour = 60 minutes ½ hour = 30 minutes ¼ hour = 15 minutes	What do you notice? 1 minute = 60 seconds 2 minutes = 120 seconds Continue the pattern	What do you notice? 1:00pm = 13:00 2:00pm = 14:00	notice? 1 minute = 60 seconds 60 minutes = seconds	16km = miles 4 km = miles Fill in the missing number of miles.
Write down some more time facts like these	Write down some more time facts like these	Continue the pattern	Fill in the missing number of seconds down some more time facts like this.	Write down some more facts connecting kilometres and miles.