Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Measures					
Compare and describe		Measure and compare	Convert between	Convert between	Use, read, write and
practical problems for		lengths (m/cm/mm)	different units of	different units of	convert between
lengths and heights;			measure for length	metric measure	standard units,
e.g., long/short,		Add and subtract		kilometre and metre	converting
longer/shorter,		lengths (m/cm/mm)	Convert between	centimetre and metre	measurements of
tall/short, double/half			different units of	centimetre and	length from a smaller
		Measure and compare	measure for mass	millimetre	unit of measure to a
Solve practical		mass (kg/g)			larger unit, and vice
problems for lengths			Convert between	Convert between	versa using decimal
and heights; e.g.,		Add and subtract mass	different units of	different units of	notation up to three
long/short,		(kg/g)	measure for volume /	metric measure	decimal places
longer/shorter,			capacity	Kilogram and gram	
tall/short, double/half		Measure and compare			Use, read, write and
		volume/capacity (l/ml)		Convert between	convert between
Compare and describe				different units of	standard units,
practical problems for		Add and subtract		metric measure	converting
mass/weight; e.g.,		volume/capacity (l/ml)		litre and millilitre	measurements of mass
heavy/light, heavier					from a smaller unit of
than, lighter than				(m2)	measure to a larger
					unit, and vice versa
Solve practical					using decimal notation
problems for					up to three decimal
mass/weight; e.g.,					places
heavy/light, heavier					
than, lighter than					Use, read, write and
					convert between
Compare and describe					standard units,
practical problems for					converting
capacity and volume;					measurements of

## Geometry, measures and statistics - Key Performance Indicators - learning objectives

e.g., full/empty, more	Money	Money	Money	volume from a smaller
than, less than, half,	Solve simple problems	Add amounts of money	Convert between	unit of measure to a
half full, quarter	in a practical context	to give change, using	different units of	larger unit, and vice
	involving addition of	both £ and p in practical	measure for money	versa using decimal
Solve practical	money of the same	contexts		notation up to three
problems for capacity	unit			decimal places
and volume; e.g.,		Subtract amounts of		
full/empty, more than,	Solve simple problems	money to give change,		Use, read, write and
less than, half, half	in a practical context	using both £ and p in		convert between
full, quarter	involving subtraction	practical contexts		standard units,
	of money of the same			converting
Compare and describe	unit			measurements of time
practical problems for				from a smaller unit of
time; e.g., quicker,	Solve simple problems			measure to a larger
slower, earlier, later	in a practical context			unit, and vice versa
	including giving	Time		using decimal notation
Time	change	Tell the time from an	Time	up to three decimal
Solve practical		analogue clock	Convert between	places
problems for time;			different units of	
e.g., quicker, slower,		Tell the time from a	measure for time	
earlier, later		12-hour clock		
Tell the time to the		Tell the time from 24-		
hour		hour clock		
Tell the time to half				
past the hour		Write the time from an		
		analogue clock		
Draw hands on a clock				
face to show the hour		Write the time from a		
		12-hour clock		
Draw hands on a clock				
face to show the half		Write the time from 24-		
hour		hour clock		

Geometry	Properties	of shape			
Recognise and name	Compare and sort	Identify right angles	Compare geometric	Draw given angles and	Compare geometric
common 2-D shapes	common 2-D shapes		shapes, including	measures them in	shapes based on their
e.g., rectangles	and everyday objects	Recognises that two	quadrilaterals and	degrees (0)	properties and sizes
(including squares),		right angles make a half-	triangles, based on their		
circles and triangles.	Compare and sort	turn	properties	Distinguish between	Classify geometric
	common 3-D shapes			regular and irregular	shapes based on their
Recognise and name	and everyday objects	Recognise that three	Compare geometric	polygons	properties and sizes
common 3-D shapes,		make three quarters of	shapes, including		
including e.g., cuboids		a turn	quadrilaterals and	Distinguish between	Find unknown angles in
(including cubes),			triangles, based on their	regular and irregular	any triangle
pyramids and spheres.		Recognise four make a	size	polygons based on	
		complete turn		reasoning about equal	Find unknown angles in
			Classify geometric	sides and angles	any quadrilateral
		Identify whether angles	shapes, including		
		are greater than or less	quadrilaterals and	Measure the	Find unknown angles in
		than a right angle	triangles, based on their	perimeter of	any regular polygon
			properties	composite rectilinear	
				shapes in centimetres	
			Identify geometric		
			shapes, including	Measure the	
			quadrilaterals and	perimeter of	
			triangles, based on their	composite rectilinear	
			size	shapes in metres	
			Identify lines of	Calculate the	
			summetry lines of	calculate the	
			dimonsional change	composito rostilinoar	
			unnensional shapes	shapes in contimetres	
			Identify lines of	snapes in centimetres	
			symmetry presented in	Calculate the	
			different orientations	parimeter of	
			dimensional shapes Identify lines of symmetry presented in different orientations	composite rectilinear shapes in centimetres Calculate the perimeter of	

				composite rectilinear	
				shapes in metres	
				Compare the area of	
				rectangles (including	
				squares) and	
				including square	
				centimetres (cm2)	
				Compare the area of	
				rectangles (including	
				squares), and	
				including square	
				metres (m2)	
				Calculates the area of	
				rectangles (including	
				squares), and	
				including square	
				centimetres (cm2)	
				Calculates the area of	
				rectangles (including	
				squares) standard	
				units, square metres	
Geometry	Position	and direction			
	Use mathematical		Plot specified points		Draw simple shapes on
	vocabulary to describe		and draw sides to		the coordinate plane
	position		complete a given		
			polygon		Reflect simple shapes
	Use mathematical				in the axis.
	vocabulary to describe				
	direction				

	Use mathematical vocabulary to describe movement Use mathematical vocabulary to describe movement in a straight line Distinguish between				Translate simple shapes on the coordinate plane Translate simple shapes in the axis
	rotation as a turn and in terms of right angles for quarter, half and three-quarter turns clockwise				
	Distinguish between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns anti-clockwise				
Statistics					
	Answer questions about totalling categorical data	Interpret data using bar charts	Solve comparison problems using information presented in bar charts	Complete tables Complete timetables	Interpret pie charts Interpret line graphs
	Answer questions about comparing categorical data	pictograms	Solve comparison	Read tables Read timetables	Construct pie charts Construct line graphs
	0				- 0 - 1- 7

	Ask questions about totalling categorical data Ask questions about comparing categorical data	Interpret data using tables Present data using bar charts Present data using pictograms Present data using tables	<ul> <li>information presented</li> <li>in pictograms</li> <li>Solve comparison</li> <li>problems using</li> <li>information presented</li> <li>in tables</li> <li>Solve sum and</li> <li>difference problems</li> <li>using information</li> <li>presented in bar charts</li> <li>Solve sum and</li> <li>difference problems</li> <li>using information</li> <li>presented in pictograms</li> <li>Solve sum and</li> <li>difference problems</li> <li>using information</li> <li>presented in pictograms</li> <li>Solve sum and</li> <li>difference problems</li> <li>using information</li> <li>presented in pictograms</li> </ul>	Interpret information in tables Interpret information in timetables	Use pie charts to solve problems Use line graphs to solve problems Calculate the mean as an average Interpret the mean as an average
Year 6 only Ratio and proportion	Solve problems involving the calculation of percentages e.g. of measures, such as 15% of 360.	Year 6 only Algebra	Use simple formulae - perimeter of a rectangle Use simple formulae - perimeter of a triangle Use simple formulae - area of a rectangle		

	Solve problems involving the calculation of percentages and the use of percentages for comparison Solve problems involving unequal sharing and grouping using knowledge of multiples. Solve problems involving unequal sharing and grouping using knowledge of fractions		Use simple formulae - area of a triangle		
Skills vocabulary					
Compare	Compare	Measure	Convert	Convert	Use
Solve	Solve	Tell	Compare	Measure	Read
Draw	Use	Identify	Identify	Calculate	Write
Recognise	Distinguish	Write	Plot	Compare	Convert
	Answer	Recognise	Solve	Draw	Compare
	Ask	Interpret		Distinguish	Classify

	Present	Complet	e Find
		Read	Draw
		Interpre	et Reflect
			Translate
			Interpret
			Construct
			Calculate
			Solve
Naming			
vocabulary			

20 days PPA per year - is it enough? - Can an odd week term have a short SSM unit?

Time by Y3 - priority for KS2 that all pupils tell the time - Unit at beginning of the year/odd week after xmas?

Statistics - Graph a week in early bird / built into a maths lesson / science

Y6 ratio / algebra part of a standard teaching cycle - short unit

Y5 - perimeter / area - Short unit

Measures application used throughout numeracy sessions as context for problem solving