Bowmansgreen Primary School

Progression of Measurement



National Curriculum (Statutory Requirements)

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Compare, describe and solve practical	Choose and use appropriate	Measure, compare, add and	Convert between	Convert between different units	Solve problems involving the
problems for:	standard units to estimate and	subtract: lengths (m/cm/mm);	different units of	of metric measure (for example,	calculation and conversion of
 Lengths and heights [for 	measure length/height in any	mass (kg/g); volume/capacity	measure (for example,	kilometre and metre; centimetre	units of measure, using decimal
example, long/short,	direction (m/cm); mass (kg/g);	(l/ml).	kilometre to metre;	and metre; centimetre and	notation up to three decimal
longer/shorter, tall/short,	temperature (°c); capacity	Measure the perimeter of simple	hour to minute).	millimetre; gram and kilogram;	places where appropriate.
double/half]	(litres/ml) to the nearest	2-d shapes.	Measure and calculate	litre and millilitre).	Use, read, write and convert
 Mass / weight [for example, 	appropriate unit, using rulers,	2-u silapes.	the perimeter of a	Understand and use approximate	between standard units,
heavy/light, heavier than,	scales, thermometers and	Add and subtract amounts of	rectilinear figure	equivalences between metric	converting measurements of
lighter than]	measuring vessels.	money to give change, using both	(including squares) in	units and common imperial units	length, mass, volume and time
- Capacity and volume	Compare and order lengths, mass,	£ and p in practical contexts.	centimetres and	such as inches, pounds and pints	from a smaller unit of measure to
[full/empty, more than, less	volume/capacity and record the	Tell and write the time from an	metres.		a larger unit, and vice versa, using
than, half, half full, quarter]	results using >, < and =.	analogue clock, including using		Measure and calculate the	decimal notation to up to three
- Time [quicker, slower, earlier,		roman numerals from i to xii, and	Find the area of	perimeter of composite	decimal places.
later]	Recognise and use symbols for	12-hour and 24-hour clocks.	rectilinear shapes by	rectilinear shape s in centimetres	•
•	pounds (£) and pence (p); combine	12 Hour and 24 Hour clocks.	counting squares.	and metres.	Convert between miles and
Measure and begin to record the	amounts to make a particular	Estimate and read time with	Estimate, compare and	Calculate and compare the area	kilometres.
following:	value.	increasing accuracy to the	calculate different	of rectangles (including squares)	Recognise that shapes with the
 Lengths and heights 	Find different combinations of	nearest minute; record and	measures, including	using standard units, square	same areas can have different
- Mass/weight	coins that equal the same amounts	compare time in terms of	money in pounds and	,	perimeters and vice versa.
- Capacity and volume	of money.	seconds, minutes and hours; use	pence.	centimetres (cm ²) and square	•
- Time (hours, minutes, seconds)	•	vocabulary such as o'clock,		metres (m ²) and estimate the	Recognise when it is possible to
, , ,	Solve simple problems in a practical	a.m./p.m., morning, afternoon,	Read, write and convert	area of irregular shapes.	use formulae for area and volume
Recognise and know the value of different	context involving addition and	noon and midnight.	time between analogue		of shapes.
denominations of coins and notes.	subtraction of money of the same	Know the number of seconds in a	and digital 12 and 24-	Estimate volume [for example,	Calculate the area of
Sequence events in chronological order	unit, including giving change.	minute and the number of days	hour clocks.	using 1 cm blocks to build	parallelograms and triangles.
using language [for example, before and	Compare and sequence intervals of	in each month, year and leap	Solve problems	cuboids (including cubes)] and	paranelogianis and triangles.
after, next, first, today, yesterday,	time.	year.	involving converting	capacity (for example, using	Calculate, estimate and compare
tomorrow, morning, afternoon and	time.	yeur.	from hours to minutes;	water).	volume of cubes and cuboids
evening].	Tell and write the time to five	Compare durations of events [for	minutes to seconds;	Calva anablama invalvina	using standard units, including
. .	minutes, including quarter past/to	example to calculate the time	years to months; weeks	Solve problems involving	centimetre cubed (cm) and cubic
Recognise and use language relating to	the hour and draw the hands on a	taken by particular events or	to days.	converting between units of time.	3
dates, including days of the week, weeks,	clock face to show these times.	tasks].		Use all four operations to solve	metres (m ²), and extending to
months and years.	Know the number of minutes in an			problems involving measure [for	other units [for example, mm ³
Tell the time to the hour and half past the	hour and the number of hours in a			example, length, mass, volume,	and km].
hour and draw the hands on a clock face	day.			money] using decimal notation	ana kin j.
to show these times.	auy.			including scaling.	
to short these times.					

Notes and Guidance (Non-Statutory)

weight, volume and capacity, are used interchangeably at this stage. measurement with increasing accuracy, using their and units, progressing to using a wider range of reco	Pupils build on their understanding of place value and decimal notation to record metric measures, including money.	Pupils use their knowledge of place value and multiplication and division to convert between standard units.	Pupils connect conversion (for example, from kilometres to miles) to a graphical representation as preparation
comparing different types of quantities and measures using non-standard units, including discrete (for example, counting) and continuous (for example, liquid) measurement, to using manageable common standard units. They become fluent in telling the time on analogue clocks and recording it. They discrete (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed units (for example, 1 kg and 200g) and simple equivalents of mixed uni	They use multiplication to convert from larger to smaller units. Perimeter can be expressed algebraically as 2(a + b) where a and b are the dimensions in the same unit. They relate area to arrays and multiplication.	Pupils calculate the perimeter of rectangles and related composite shapes, including using the relations of perimeter or area to find unknown lengths. Missing measures questions such as these can be expressed algebraically 4 + 2b = 20 for a rectangle of sides 2 cm and b cm and perimeter of 20cm. Pupils calculate the area from scale drawings using given measurements. Pupils use all four operations in problems involving time and money, including conversions (for example, days to weeks, expressing the answer as weeks and days).	for understanding linear/proportional graphs. They know approximate conversions and are able to tell if an answer is sensible. Using the number line, pupils use, add and subtract positive and negative integers for measures such as temperature. They relate the area of rectangles to parallelograms and triangles, for example, by dissection, and calculate their areas, understanding and using the formulae (in words or symbols) to do this. Pupils could be introduced to compound units for speed, such as miles per hour, and apply their knowledge in science or other subjects as appropriate.