St Anthony's Catholic Primary School



Progression: Measurement Programme of study (statutory requirements)

Programme of study (statutory requirements)								
Y1	Y2	Y3	Y4	Y5	Y6			
Measurement	Measurement	Measurement	Measurement	Measurement	Measurement			
Measurement Pupils should be taught to: compare, describe and solve practical problems for: lengths and heights [for example, long/short, longer/shorter, tall/short, double/half] mass / weight [for example, heavy/light, heavier than, lighter than] capacity and volume [full/empty, more than, less than, half, half full, quarter] time [quicker, slower, earlier, later] measure and begin to record the following: lengths and heights mass/weight capacity and volume time (hours, minutes, seconds) recognise and know the value of different denominations of coins and notes sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] recognise and use language relating to dates, including days of the week, weeks, months and years tell the time to the hour and	Pupils should be taught to: 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 compare and order lengths, mass, volume/capacity and record the results using >, < and = recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value 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 compare and sequence intervals of time 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. know the number of minutes in an hour and	Pupils should be taught to: measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) measure the perimeter of simple 2-D shapes in squares, cm and m add and subtract amounts of money to give change, using both £ and p in practical contexts tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight know the number of seconds in a minute and the number of days in each month, year and leap year compare durations of events [for example to calculate the time	Pupils should be taught to: convert between different units of measure (for example, kilometre to metre; hour to minute) measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres find the area of rectilinear shapes by counting squares estimate, compare and calculate different measures, including money in pounds and pence read, write and convert time between analogue and digital 12 and 24-hour clocks solve problems involving converting from hours to minutes; minutes to seconds; years to months; months to years; weeks to days	Pupils should be taught to: convert between different units of metric measure (for example, kilometre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints measure and calculate the perimeter of composite rectilinear shape s in centimetres and metres calculate, compare and estimate the area of rectangles (including squares) using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes estimate volume [for example, using 1 cm² blocks to build cuboids (including cubes)] and capacity (for example, using water) solve problems involving converting between units of time use all four operations to solve problems involving measure [for example,	Pupils should be taught to: solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate 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 convert between miles and kilometres recognise that shapes with the same areas can have different perimeters and vice versa recognise when it is possible to use formulae for area and volume of shapes calculate the perimeter and area of rectangles, parallelograms and triangles calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm ³) and cubic metres (m ³),			

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half past the hour and draw	the number of hours in a	taken by particular		length, mass, volume,	and extending to other
the hands on a clock face to	day	events or tasks]		money] using decimal	units [for example, mm ³
show these times				notation including scaling	and km ³]
Non-statutory					and km j
Non-statutory Y1	Y2	Y3	Y4	Y5	Y6
Measurement	Measurement	Measurement	Measurement	Measurement	Measurement
Measurement	Measurement	Measurement	Measurement	Medsarement	Measurement
The pairs of terms: mass and	Pupils use standard units of	Pupils continue to measure	Pupils build on their	Pupils use their knowledge of	Pupils connect conversion (for
weight, volume and capacity, are	measurement with increasing	using the appropriate tools	understanding of place	place value and multiplication	example, from kilometres to
used interchangeably at this	accuracy, using their	and units, progressing to	value and decimal	and division to convert between	miles) to a graphical
stage.	knowledge of the number	using a wider range of	notation to record metric	standard units.	representation as preparation
	system. They use the	measures, including	measures, including	Convert units of volume.	for understanding
Pupils move from using and	appropriate language and	comparing and using mixed	money.		linear/proportional graphs.
comparing different types of	record using standard	units (for example, 1 kg and	Round money to the	Pupils calculate the perimeter of	
quantities and measures using	abbreviations.	200g) and simple equivalents	nearest £ and £10	rectangles and related	They know approximate
non-standard units, including		of mixed units (for example,	Measure and estimate	composite shapes, including	conversions and are able to
discrete (for example, counting)	Measure and draw lines.	5m = 500cm).	length, mass, money,	using the relations of perimeter	tell if an answer is sensible.
and continuous (for example,		Read scales for mass in kg	time.	or area to find unknown lengths.	
liquid) measurement, to using	Comparing measures includes	and g.		Missing measures questions	Using the number line, pupils
manageable common standard	simple multiples such as 'half	Solve problems on volume	They use multiplication to	such as these can be	use, add and subtract positive
units.	as high'; 'twice as wide'.	and capacity, mass and	convert from larger to	expressed algebraically 4 + 2b	and negative integers for
	Solve problems on volume.	money.	smaller units.	= 20 for a rectangle of sides 2	measures such as
In order to become familiar with	Read a thermometer. Measure	Convert between m & cm to		cm and b cm and perimeter of	temperature.
standard measures, pupils begin	and write down the	cm, km & m to m and vice	Perimeter can be	20cm.	
to use measuring tools such as a	temperature.	versa.	expressed algebraically	.	They relate the area of
ruler, weighing scales and	The same a flavored in Aplifican	Th	as 2(a + b) where a and	Pupils calculate the area and	rectangles to parallelograms
containers.	They become fluent in telling	The comparison of measures	b are the dimensions in	perimeter from scale drawings	and triangles, for example, by
Pupils use the language of time,	the time on analogue clocks	should also include simple	the same unit.	using given measurements.	dissection, and calculate their
including telling the time	and recording it. Find the duration of time.	scaling by integers (for example, a given quantity or	Measure and estimate	Tell the temperature.	areas, understanding and using the formulae (in words
throughout the day, first using	Find the duration of time. Find the starting or ending	measure is twice as long or	volume.	Tell the temperature.	or symbols) to do this.
o'clock and then half past.	time.	five times as high) and this	Convert units of volume	Pupils use all four operations in	Use the area of rectangles,
o clock and then hall past.	une.	connects to multiplication.	They relate area to	problems involving time and	triangles and parallelograms
Compare different times.	Pupils become fluent in	connects to multiplication.	arrays and multiplication.	money, including conversions	to find the area of other types
Compare different times.	counting and recognising	Pupils continue to become	arrayo aria manipiloanom	(for example, days to weeks,	of polygons.
	coins. They read and say	fluent in recognising the	Find the duration,	expressing the answer as	or polygono.
	amounts of money confidently	value of coins, by adding and	starting time and	weeks and days).	Pupils could be introduced to
	and use the symbols £ and p	subtracting amounts,	finishing time.	Read and interpret information	compound units for speed,
	accurately, recording pounds	including mixed units, and]	in a timetable.	such as miles per hour, and
	and pence separately.	giving change using			apply their knowledge in
	Solve word problems in all	manageable amounts. They			science or other subjects as
	measures.	record £ and p separately.			appropriate.
		The decimal recording of			
		money is introduced formally			
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		Use different ways to show			

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the same amounts of money Pupils use both analogue and digital 12-hour clocks and record their times. In this way they become fluent in and prepared for using digita 24-hour clocks in year 4. Tell and write time using 'past' and 'to' Find the number of days using a calendar.		