

## Sacred Heart Catholic Primary School Progression: Measurement Programme of study (statutory requirements)



Herts for Learning – Teaching and Learning

YN	YR	Early Learning Goals	Y1	Y2	Y3	Y4	Y5	Y6	
Measurement			Measurement	Measurement	Measurement	Measurement	Measurement		
Pupils should be taught to:  Compare quantities using language such as "more" and "fewer"  Make comparisons between objects relating to size, length, weight and capacity  Investigate measure using appropriate vocabulary Heavy/light/same as/ heavier/lighter/tall/short/ Long/longer/shorter/empty Full/nearly full/nearly empty	Pupils should be taught to:  Compare length, weight and capacity To use prior vocabulary and supplement with Lightest/heaviest/ Half full/quickest/ Slowest To compare, describe and solve practical problems for >length and heights. >weight >capacity >time To order and sequence 3 comparisons of measure. To begin to use non — standard units to measure static objects. To record findings during investigations. To understand the importance of constant baseline		Pupils should be taught to:	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, thermometer s and measuring vessels  • compare and order lengths, mass, volume/capa city and record the results using >, < and =  • recognise and use symbols for pounds (£)	Pupils should be taught to:  • measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capaci ty (l/ml)  • measure the perimeter of simple 2-D shapes  • 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	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	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	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 measureme nts of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal	

sequence a familiar set of events both fictional and non-fictional  To be introduced to and understand the o'clock time on an analogue clock.  To be able to read and draw the hands on a clock face to show this times.  To be able to read and draw the hands on a clock face to show the times.	events origical amounts to make a particular value of for elect, value of 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 to show on a to show on a to show on a make a mounts to make a particular value of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight of seconds in a minute and the number of days in each month, year and leap year compare	calculate and compare the area of rectangles (including between analogue and digital 12 and 24-hour clocks     solve problems involving converting from hours to minutes to seconds; years to months; weeks to days      velocks to build cuboids (including cubes) ] and capacity (for example, using water)     solve problems involving converting from hours to minutes to seconds; years to months; weeks to days      velocks 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 centimetre     use all four operations to solve problems involving measure [for example, length, mass, length, length, mass, length, length, mass, length, length, mass, length, length, length, mass, length, l
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Notes and midense (not	1-11										km j	_
Notes and guidance (nor	n-statutory) Y2		Y3		T	· 4		Y5			Y6	7
Measurement	Measurement		Measurement		Y4 Measurement		Measurement			Measurement		-
The pairs of terms: mass and weight, volume and capacity, are used interchangeably at this stage.  Pupils move from using and 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.  In order to become familiar with standard measures, pupils begin to use measuring tools such as a ruler, weighing scales and containers.  Pupils use the language of time, including telling the time throughout the day, first using o'clock and then half past.	Pupils use standar measurement with accuracy, using the knowledge of their system. They use appropriate languar record using standabbreviations.  Comparing measus simple multiples standabile standabile standabile multiples standabile standabile multiples standabile standabi	th increasing their enumber enumber enumber enumber enuage and endard enumber such as 'half enumber'.  The ent in telling enumber enum	Pupils continue to measusing the appropriate to and units, progressing trusing a wider range of measures, including comparing and using munits (for example, 1 kg 200g) and simple equivor of mixed units (for exam 5m = 500cm).  The comparison of measures should also include simple scaling by integers (for example, a given quantification measure is twice as longitive times as high) and to connects to multiplication.  Pupils continue to beconfluent in recognising the value of coins, by addingular subtracting amounts, including mixed units, and giving change using manageable amounts. The decimal recording of money is introduced for in year 4.  Pupils use both analogue and digital 12-hour clock and record their times. I way they become fluent and prepared for using 624-hour clocks in year 4.	ools cools c	Pupils build of understanding value and despendent of the measures, in money.  They use muconvert from smaller units.  Perimeter cate expressed all as 2(a + b) with a rethed in the same units.  They relate a arrays and measures, and measures.	ng of place perimal ecord metric period in the properties of the p	Pupils rectan compousing or are Missir such a expres = 20 fc cm an 20cm.  Pupils scale measu  Pupils scale measu  Pupils scale measu  Pupils proble money (for expression per pupils proble expression per pupils pe	use their knowledgy value and multiplicativision to convert be ard units.  I calculate the perimingles and related posite shapes, including the relations of perimate to find unknown leng measures questions these can be seed algebraically 4 for a rectangle of side of the distribution of the perimeter of the calculate the area of the distribution of the perimeter of the calculate the area of the distribution of the perimeter of the calculate the area of the	ation attween  meter of ing meter engths. ons  + 2b les 2 er of from en ons in nd ions eks,	example, frr miles) to a grepresentat for understallinear/proportion tell if an ansitell if an a	ion as preparation anding pritional graphs.  approximate and are able to swer is sensible.  umber line, pupils d subtract positive e integers for uch as a comparallelograms s, for example, by and calculate their erstanding and rmulae (in words to do this.  I be introduced to units for speed, es per hour, and knowledge in other subjects as	Herts for Learning – Teaching and Learning