

## St Joseph's Catholic Primary Voluntary Academy skills progression grid Maths- Measurement

## **COMPARING AND ESTIMATING** Year 2 Year I Year 3 Year 4 Year 5 Year 6 compare and order calculate and compare the compare, describe and solve estimate, compare calculate, estimate and practical problems for: area of squares and lengths, mass, and calculate compare volume of cubes lengths and heights [e.g. volume/capacity and rectangles including using and cuboids using different measures. record the results using standard units, square standard units, including long/short, including money in longer/shorter, tall/short, >. < and = pounds and pence centimetre cubed (cm ) centimetres (cm<sup>2</sup>) and double/half1 (also included in and cubic metres (m), square metres (m) and Measuring) mass/weight [e.g. and extending to other estimate the area of heavy/light, heavier than, units such as mm and irregular shapes (also lighter than 1 included in measuring) capacity and volume [e.g. km. estimate volume (e.g. using full/empty, more than, I cm blocks to build cubes less than, half, half full, quarter] and cuboids) and capacity time [e.g. quicker, (e.g. using water) slower, earlier, later] compare and sequence sequence events in compare durations of events, for example chronological order using to calculate the time taken by particular intervals of time language [e.g. before and events or tasks after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] 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)

MEASURING and CALCULATING					
Year I	Year 2	Year 3	Year 4	Year 5	Year 6
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)
		measure the <b>perimeter</b> of simple 2-D shapes	measure and calculate the <b>perimeter</b> of a rectilinear figure (including squares) in centimetres and metres	measure and calculate the <b>perimeter</b> of composite rectilinear shapes in centimetres and metres	recognise that shapes with the same areas can have different <b>perimeters</b> and vice versa

MEASURING and CALCULATING						
Year 2	Year 3	Year 4	Year 5	Year 6		
6	add and subtract amounts					
icular value	practical contexts					
different combinations of coins						
equal the same amounts of						
ney						
e unit, including giving change						
				calculate the area of		
		. ,		parallelograms and triangles		
		counting squares	rectangles including using			
n to to	gnise and use symbols for ds (£) and pence (p); oine amounts to make a cular value  different combinations of coins equal the same amounts of	Year 2  gnise and use symbols for ds (£) and pence (p); of money to give change, using both £ and p in practical contexts  different combinations of coins equal the same amounts of ey  e simple problems in a dical context involving addition subtraction of money of the	Year 2  gnise and use symbols for ds (£) and pence (p); of money to give change, using both £ and p in practical contexts  different combinations of coins equal the same amounts of ey  e simple problems in a dical context involving addition subtraction of money of the	Year 2  gnise and use symbols for olds (£) and pence (p); of money to give change, using both £ and p in practical contexts  different combinations of coins equal the same amounts of ey  e simple problems in a cical context involving addition subtraction of money of the unit, including giving change  find the area of rectilinear shapes by  find the area of squares and		

recognise and use square numbers and cube numbers, and the notation for squared  () and cubed ()  (copied from Multiplication  centimetres (cm ) and cub metres (m), and extendin to other units [e.g. mm are squared				numbers and cube numbers, and the notation for squared ( ) and cubed ( ) (copied from Multiplication	and cuboids using standard units, including cubic centimetres (cm ) and cub metres (m ), and extending to other units [e.g. mm arkm ].
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TELLING THE TIME						
Year I	Year 2	Year 3	Year 4	Year 5	Year 6	
tell the time to the hour and	tell and write the time to five	tell and write the time from	read, write and convert time			
half past the hour and draw	minutes, including quarter	an analogue clock, including	between analogue and digital			
the hands on a clock face to	past/to the hour and draw	using Roman numerals from I	12 and 24-hour clocks			
show these times.	the hands on a clock face to	to XII, and 12-hour and 24-	(appears also in Converting)			
	show these times.	hour clocks				
recognise and use language	know the number of minutes	estimate and read				
relating to dates, including	in an hour and the number	time with increasing accuracy				
days of the week, weeks,	of hours in a day.	to the nearest minute;				
months and years	(appears also in Converting)	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	solve problems involving		
			converting from hours to	converting between units of		
			minutes; minutes to seconds;	time		
			years to months; weeks to			
			days			
			(appears also in Converting)			

	CONVERTING						
Year I	Year 2	Year 3	Year 4	Year 5	Year 6		
	know the number of minutes in an hour and the number of hours in a day. (appears also in Telling the Time)	know the number of seconds in a minute and the number of days in each month, year and leap year	convert between different units of measure (e.g. kilometre to metre; hour to minute)	convert between different units of metric measure (e.g. kilometre and metre; centimetre and millimetre; centimetre and millimetre; gram and kilogram; litre and millilitre)	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 convert time between analogue and digital 12 and 24-hour clocks (appears also in Converting)	solve problems involving converting between units 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 involving converting from hours to minutes; minutes to seconds; years to months; weeks to days (appears also in Telling the Time)	understand and use equivalences between metric units and common imperial units such as inches, pounds and pints	convert between miles and kilometres		