

Acre Hall Skills Map for Maths

LA/SEN – please refer to previous year skills if needed. Co-ordinator – Miss Johnson and Miss Christopher



Measurement

COMPARING AND ESTIMATING									
Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
Make comparisons between objects relating to size, length, weight and capacity. Capacity, for example, compare the capacity of two containers by pouring from one to the other.	cake comparisons tween objects ating to size, agth, weight and pacity. pacity, for ample, compare e capacity of two intainers by uring from one	compare, describe and solve practical problems for: * lengths and heights [e.g. long/short, longer/shorter, tall/short, double/half] * mass/weight [e.g. heavy/light, heavier than, lighter than] * capacity and volume [e.g.	compare and order lengths, mass, volume/capacity and record the results using >, < and =	ngths, mass, lume/capacity and cord the results		calculate and compare the area of squares and rectangles including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes (also included in measuring)	calculate, estimate and compare volume of cubes and cuboids using standard units, including centimetre cubed (cm³) and cubic metres (m³), and extending to other units		
	Enjoys predicting and discussing comparisons of attributes. Focuses on fairness and accuracy. Uses a variety of	full/empty, more than, less than, half, half full, quarter] * time [e.g. quicker, slower, earlier, later] sequence events in	compare and	compare durations		(e.g. using 1 cm ³ blocks to build cubes and cuboids) and capacity (e.g. using water)	such as mm ³ and km ³ .		
	measuring tools.	chronological order using language [e.g. before and after, next, first, today, yesterday, tomorrow, morning,	sequence intervals of time	of events, for example to calculate the time taken by particular events or tasks					

	Estimates how many cubes will fill a space.	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 CA			
Nursery	Reception	Year 1	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,	measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (I/mI)	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

	using rulers, scales, thermometers and measuring vessels				places where appropriate (appears also in Converting)
		measure the perimeter of simple 2-D shapes	measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres	recognise that shapes with the same areas can have different perimeters and vice versa

	MEASURING and CALCULATING								
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
	recognise and know the value	recognise and use symbols	add and subtract	find the area of	calculate and	calculate the area of			
	of different denominations of	for pounds (£) and pence	amounts of money	rectilinear shapes by	compare the area	parallelograms and			
	coins and notes	(p); combine amounts to	to give change,	counting squares	of squares and	triangles			
		make a particular value	using both £ and p		rectangles				
			in practical contexts		including using				

		find different combinations of coins that equal the same amounts of money			standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes	
		solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change			recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³) (copied from Multiplication and Division)	calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [e.g. mm³ and km³]. recognise when it is possible to use formulae for area and volume of shapes
			TELLING THE TI	_		
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Is beginning to use a timer and a calendar.	tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.	tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a	tell and write the time from an analogue clock, including using	read, write and convert time between analogue and digital 12 and		
		clock face to show these times.	Roman numerals from I to XII, and 12-	24-hour clocks (appears also in Converting)		

			hour and 24-hour clocks			
Sequences and orders events.	recognise and use language relating to dates, including days of the week, weeks, months and years	know the number of minutes in an hour and the number of hours in a day. (appears also in Converting)	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 Comparing and Estimating)			
				solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days (appears also in Converting)	solve problems involving converting between units of time	

	CONVERTING								
Year 1	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				