NRICH problems (nrich.maths.org) linked to the Curriculum for Wales Mathematics PoS for Year 4

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Key:	Normal text: LNF Statement	Area of Learning Skill ❖	Extended skills ▲

Strand / PoS Element	PoS Objective	NRICH Resources	PoS Objective	NRICH Resources	PoS Objective	NRICH Resources
Using Number Skills Use number facts and relationships	Read and write numbers to 10,000.	**Nice or Nasty** G * **The Deca Tree** P *	Compare and estimate with numbers up to 1000.		Use mental strategies to recall multiplication tables for 2,3,4,5, 6 and 10 and use to solve division problems.	**Multiplication Square Jigsaw** P * **Table Patterns Go Wild!** P * **Let Us Divide** P *
Using Number Skills Use number facts and relationships	Multiply and divide numbers by 10 and 100.	**Multiply Multiples 2** P * **Multiply Multiples 3** P *	**Identify multiples of 2, 3, 4, 5, 6 and 10; use the term multiple and factor.** ❖	**Factor Lines** P **		
Using Number Skills Fractions, decimals, percentages and ratio	Halve 3-digit numbers in the context of number, money and measures.		Find fractional quantities using known table facts e.g. $\frac{1}{6}$ of 30 cm.	**Fractions in a Box** P ** **Chocolate** I **	Recognise fractions that are several parts of a whole, *e.g.* $\frac{2}{3}$, $\frac{3}{10}$	**Fractional Triangles** P * **Bryony's Triangle** P *
Using Number Skills Calculate using mental and written methods	Find differences within 1000		Add a 2-digit number to, and subtract a 2-digit number from, a 3-digit number using an appropriate mental or written method.	**Dicey Addition** G *	Use mental strategies to multiply and divide 2-digit numbers by a single digit number.	

1

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Strand / PoS Element	PoS Objective	NRICH Resources	PoS Objective	NRICH Resources	PoS Objective	NRICH Resources
Using Number Skills Calculate using mental and written methods	**Identify negative whole numbers on a number line. ❖**		**Order whole numbers between -10 and 10. ❖**			
Using Number Skills Estimate and check	Check answers using inverse operations.		Estimate by rounding to the nearest 10 or 100.	**Reasoned Rounding G ***	.	
Using Number Skills Manage money	Use money to pay for items up to £10 and calculate the change. Order and compare items up to £100		Add and subtract totals less than £10 using correct notation, *e.g. £6.85 – £2.76*		Manage money, compare costs from different retailers and determine what can be bought within a given budget.	
Using Measuring Skills Length, weight/mass, capacity	Measure and calculate the perimeter of squares and rectangles.		**Select and use appropriate standard units to estimate and measure length❖** Measure on a ruler to the nearest mm and record using a mix of units, *e.g. 1cm 3mm.*		**Select and use appropriate standard units to estimate and measure weight / mass ❖** Use weighing scales with divisions to weigh objects to the nearest 5g, 10g, 25g or 100g.	

2

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Strand / PoS Element	PoS Objective	NRICH Resources	PoS Objective	NRICH Resources	PoS Objective	NRICH Resources
Using Measuring Skills Length, weight/mass, capacity	**Select and use appropriate standard units to estimate and measure capacity❖** Measure capacities to the nearest 50ml or 100ml.		Convert metric units of length to smaller units, *e.g. cm to mm, m to cm, km to m.*		**Choose appropriate metric units to measure length, weight / mass and capacity. ❖**	**Discuss and Choose** P *
Using Measuring Skills Time	Tell the time to the nearest minute on analogue clocks.	**The Time Is …** P **	Read hours and minutes on a 24-hour digital clock.	**How Many Times?** P *	Time and order events in seconds.	
Using Measuring Skills Time	Use calendars to plan events.		**Calculate start times, finish times and duration using 5 minute intervals. ❖**		**Convert between 12 and 24 hour clock times. ❖** **Estimate the number of minutes everyday activities take to complete. ❖**	
Using Measuring Skills Temperature Area and volume, Angle and position	Take temperature readings using thermometers and interpret readings above and below 0°C		Recognise volume in practical contexts.			
Using Measuring Skills Area and volume, Angle and position	Use eight compass points to describe direction.					

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Using Geometry Skills Shape Construction	Recognise, classify and sketch polygons with up to 8 sides including irregular shapes. ❖	**Nine-pin Triangles** P *** **Cut it Out** I *** **Sorting Logic Blocks** G * **What Shape?** P * **Shapes on the Playground** P ** **Egyptian Rope** I **	Recognise and classify 3D shapes, using their own criteria. ❖		Construction **Draw lines to the nearest mm.** ❖ **Recognise and draw perpendicular and parallel lines.** ❖	
Using Geometry Skills Movement	Draw lines of symmetry. ❖	**Let's Reflect** P * **National Flags** I * **Stringy Quads** P ** **Bracelets** I *	Draw the reflection of a shape in a horizontal or vertical line. ❖	**Symmetry Challenge** P *** **School Fair Necklaces** P **		
Using Algebra Skills Number sequences Functions and graphs	Explore sequences of positive whole numbers involving addition and subtraction in 2s, 3s, 4s, 5s, 6,s 8s and 10s from different starting points. ❖		Write the next two (or more) terms in sequences that involve addition or subtraction. ❖		Use one and two step function machines to generate input and output using all 4 operations; express, in words, the operations of function machines. ❖	**What's in the Box?** P *
Using Algebra Skills Equations and inequalities	Use < > to describe whether a number is less than or greater than another number. ❖		Find an "unknown" in 2 step equations e.g. $4x \square +1=25$. ❖			

4

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Strand / PoS Element	PoS Objective	NRICH Resources	PoS Objective	NRICH Resources	PoS Objective	NRICH Resources
Using Data Skills Collect and record data Present and analyse data Interpret results	Represent data using: lists, tally charts, tables and diagrams.	**Going for Gold** I * **The Car That Passes** I * **Real Statistics** I ***	Represent data using: bar charts and bar line graphs labelled in 2s, 5s and 10s.		Represent data using: pictograms where one symbol represents more than one unit using a key.	
	Represent data using: Venn and Carroll diagrams.	**Venn Diagrams** P * **More Carroll Diagrams** P * **Plants** I **		Extract and interpret information from charts, timetables, diagrams and graphs.		

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