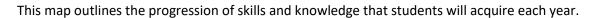
Maths Progression of Skills Map





Year	Area of Learning	Skills and Concepts	Expected Outcomes	Adaptations for Diverse	Concrete, Pictorial, and
Group		·	·	Learners	Abstract Learning
Reception	Number and	- Count, read, and write	- Can count, recognise, and	- Use counters, number	- Concrete: Counters, beads.
	Place Value	numbers to 20.	write numbers to 20.	tracks, and visual aids.	- Pictorial : Number lines,
		- Understand one-to-one	- Can identify one	- Encourage peer	images of objects.
		correspondence.	more/less.	interactions for counting	- Abstract : Written numbers,
				games.	simple number sentences.
	Addition and	- Combine and separate	- Can solve simple problems	- Provide hands-on	- Concrete: Physical objects
	Subtraction	sets of objects.	using addition and	materials for problem-	(blocks, toys).
		- Understand addition and	subtraction with objects.	solving.	- Pictorial : Drawings of objects.
		subtraction as joining and		- Use stories to	- Abstract : Simple addition and
		taking away.		contextualise addition	subtraction symbols.
				and subtraction.	
	Shape, Space	- Recognise and name 2D	- Can identify and describe	- Use shape sorting	- Concrete : Shape sorting,
	and Measures	and 3D shapes.	shapes and sizes.	activities and tactile	measuring tools.
		- Compare lengths and	- Can sort objects by shape	materials.	- Pictorial : Shape charts, visual
		weights.	and size.	- Integrate real-life	comparisons.
				contexts for	- Abstract: Shape names,
				comparisons.	simple sentences about size.
	Patterns	- Recognise, create, and	- Can identify and create	- Engage students in	- Concrete: Manipulatives for
		describe patterns.	repeating patterns	hands-on pattern-making	creating patterns.
				activities.	- Pictorial : Pattern pictures or
				- Use music and	cards.
				movement for pattern	- Abstract : Written descriptions
				recognition.	of patterns.
Year 1	Number and	- Count, read, and write	- Can count, read, and write	- Use manipulatives (e.g.,	- Concrete: Use counters and
	Place Value	numbers to 20.	numbers to 20.	counters, number lines).	blocks.
		- Understand place value in	- Can identify one		- Pictorial: Number lines and

	tens and ones.	more/less.	- Provide visual aids and	charts.
	- Compare and order	- Can compare numbers	number charts.	- Abstract: Number sentences
	numbers.	using <, >, =.		(e.g., 5 + 3 = 8).
Addition and	- Use number lines to add	- Can solve one-step	- Use pictorial	- Concrete: Physical objects for
Subtraction	and subtract.	addition and subtraction	representations for	counting.
	- Solve simple one-step	problems.	problems.	- Pictorial: Drawings to
	problems.	- Can use a number line to	- Allow the use of	represent problems.
		calculate.	number lines for	- Abstract: Written equations
			calculations.	(e.g., 7 - 2 = 5).
Multiplication	- Understand the concept	- Can double and halve	- Introduce concrete	- Concrete: Use groups of
and Division	of doubling and halving.	numbers up to 20.	materials to demonstrate	objects for doubling/halving.
	- Use arrays for	- Can solve simple	doubling and halving.	- Pictorial: Arrays to visualise
	multiplication.	multiplication problems (x2,	- Provide worksheets	multiplication.
		x5).	with visual supports.	- Abstract: Multiplication
				sentences (e.g., 4 x 3 = 12).
Fractions	- Recognise and find halves	- Can identify and create	- Use real-life examples	- Concrete: Use food items
	and quarters of shapes and	halves and quarters.	(e.g., pizza slices) to	(e.g., cutting fruit).
	amounts.		explain fractions.	- Pictorial: Fraction circles and
			- Offer hands-on activities	diagrams.
			with shapes.	- Abstract: Writing fractions
				(e.g., 1/2, 1/4).
Measurement	- Compare lengths,	- Can measure using non-	- Provide rulers and	- Concrete: Measure with
	weights, and capacities.	standard units.	scales for hands-on	objects (e.g., paper clips).
	- Understand and use time	- Can tell the time to the	measurement.	- Pictorial: Draw clock faces.
	(o'clock).	hour and half-hour.	- Use clocks with visual	- Abstract: Write time in
0	the life and describe 25		aids for teaching time.	numbers (e.g., 3:00).
Geometry	- Identify and describe 2D	- Can name and describe	- Use shape sorting	- Concrete: Use physical shapes
	and 3D shapes.	common 2D and 3D shapes.	activities and tactile	to explore properties.
	- Recognise simple	- Can create and identify	materials.	- Pictorial: Draw shapes and
	patterns.	patterns.	- Integrate art to explore shapes and patterns.	patterns.
			shapes and patterns.	- Abstract: Classify shapes by
				attributes (e.g., triangle,
				square).

Year 2	Number and	- Count in steps of 2, 3, and	- Can count and write	- Offer visual aids such as	- Concrete: Use base ten blocks
	Place Value	5.	numbers up to 100.	ten frames or base ten	for partitioning.
		- Understand place value to	- Can partition two-digit	blocks.	- Pictorial: Ten frames for
		100.	numbers.	- Group students for peer	visual counting.
				learning and support.	- Abstract: Write numbers in
					expanded form (e.g., 23 = 20 +
					3).
	Addition and	- Use partitioning to add	- Can add and subtract two-	- Provide number lines	- Concrete: Use manipulatives
	Subtraction	and subtract two-digit	digit numbers.	and counting tools.	to represent numbers.
		numbers.	- Can solve problems using	- Use visual problem-	- Pictorial: Bar models for
			addition and subtraction.	solving strategies, like bar	addition and subtraction.
				models.	- Abstract: Write equations
					(e.g., 45 + 32).
	Multiplication	- Understand and use the	- Can solve multiplication	- Provide multiplication	- Concrete: Use counters for
	and Division	multiplication tables (x2,	and division problems	charts.	groups in multiplication.
		x5, x10).	within the tables learned.	- Use arrays and groups	- Pictorial: Draw arrays to
		- Solve problems using		for visual multiplication	represent problems.
		division.		concepts.	- Abstract: Write multiplication
					facts (e.g., 5 x 2 = 10).
	Fractions	- Understand equivalent	- Can identify and create	- Use visual aids to	- Concrete: Use objects like
		fractions (e.g., $2/4 = 1/2$).	simple fractions.	demonstrate fractions on	pizza to demonstrate fractions.
		- Find simple fractions of	- Can compare and order	a number line.	- Pictorial: Draw fraction bars.
		shapes and amounts.	fractions.	- Engage in practical	- Abstract: Write fractions and
				activities with fraction	compare them (e.g., 1/2, 2/4).
				amounts.	
	Measurement	- Measure using standard	- Can compare and order	- Allow use of measuring	- Concrete: Measure objects
		units (cm, kg, I).	lengths and weights.	tools during activities.	with rulers.
		- Tell time to the nearest 5	- Can tell the time	- Use interactive clocks	- Pictorial: Draw scales for
		minutes.	accurately.	for teaching time.	weight.
					- Abstract: Write
					measurements in numerical
					form (e.g., 20 cm).

	Geometry	- Describe position,	- Can describe and follow	- Use movement games	- Concrete: Use physical
		direction, and movement.	simple instructions to move	to illustrate direction.	movement (e.g., hopscotch).
			in different directions.	- Provide maps for spatial	- Pictorial: Draw maps with
				awareness activities.	directions.
					- Abstract: Write directional
					commands (e.g., left, right).
Year 3	Number and	- Read and write numbers	- Can count in multiples of	- Utilise number charts	- Concrete: Use base ten
	Place Value	to 1000.	4, 8, 50, and 100.	and place value mats.	materials for larger numbers.
		- Understand the value of	- Can compare and order	- Provide differentiated	- Pictorial: Place value grids.
		each digit.	numbers up to 1000.	tasks based on ability.	- Abstract: Write numbers in
			·	,	standard and expanded form.
	Addition and	- Use column methods for	- Can add and subtract	- Offer guided practice	- Concrete: Use manipulatives
	Subtraction	addition and subtraction.	three-digit numbers.	and peer support.	to model addition/subtraction.
		- Solve multi-step	- Can apply addition and	- Use digital tools for	- Pictorial: Column method
		problems.	subtraction in real-life	interactive practice.	representations.
		·	contexts.	·	- Abstract: Written algorithms
					(e.g., 456 + 234).
	Multiplication	- Recall multiplication and	- Can multiply and divide	- Use multiplication	- Concrete: Arrays with objects
	and Division	division facts for 3, 4, and 8	numbers using the learned	flashcards and games.	for multiplication.
		times tables.	tables.	- Use manipulatives to	- Pictorial: Drawings of groups.
		- Understand remainders.	- Can solve problems	visualise division.	- Abstract: Multiplication
			involving multiplication and		equations (e.g., 3 x 4 = 12).
			division.		
	Fractions	- Understand and use	- Can add and subtract	- Provide fraction strips	- Concrete: Use food items for
		fractions as numbers.	fractions with the same	for hands-on learning.	fraction understanding.
		- Find fractions of amounts.	denominator.	- Use real-life scenarios	- Pictorial: Fraction diagrams.
			- Can represent fractions	to explain fractions.	- Abstract: Numerical
			visually and in numbers.		representation of fractions
					(e.g., 3/4 + 1/4 = 1).
	Measurement	- Measure lengths in	- Can solve problems	- Allow practical	- Concrete: Measuring liquids
		meters and centimetres.	involving measures.	measurement tasks (e.g.,	with containers.
		- Understand volume in	- Can tell the time and	measuring classroom	- Pictorial: Charts for different
		litres.		items).	measurements.

			convert between hours and	- Use cooking to explore	- Abstract: Write conversions
			minutes.	volume.	(e.g., 1 hour = 60 minutes).
	Geometry	Identify angles and shapes.Describe 2D and 3D	- Can classify shapes by properties Can identify right angles	- Use building blocks to explore shapes and angles.	- Concrete: Use protractors and rulers Pictorial: Draw shapes and
		shapes using properties.	and other angles.	- Provide geometric tools for hands-on learning.	label properties Abstract: Write properties of shapes (e.g., triangles have three sides).
Year 4	Number and Place Value	 Read, write, and compare numbers up to 10,000. Understand negative numbers. 	 Can round numbers to the nearest 10, 100, and 1000. Can identify the place value of digits in larger numbers. 	Provide number lines and interactive games.Differentiate tasks based on readiness.	 Concrete: Base ten blocks for larger numbers. Pictorial: Place value grids for large numbers. Abstract: Write numbers in standard and expanded form.
	Addition and Subtraction	- Use efficient column methods for multi-digit addition and subtraction.	- Can solve multi-step problems involving addition and subtraction.	 Encourage collaboration in problem-solving tasks. Use technology for interactive learning. 	 Concrete: Use manipulatives to represent numbers. Pictorial: Column method representations. Abstract: Written algorithms for addition and subtraction.
	Multiplication and Division	 - Understand and use the properties of multiplication. - Divide numbers using the short division method. 	 Can multiply and divide numbers up to 100. Can solve multi-step problems involving multiplication and division. 	Use multiplication tables for practice.Provide visual aids for division methods.	 Concrete: Use arrays and grouping for multiplication. Pictorial: Short division diagrams. Abstract: Write multiplication and division equations.
	Fractions	 - Understand and use improper fractions and mixed numbers. - Compare and order fractions. 	 Can add and subtract fractions with different denominators. Can represent fractions visually and in numbers. 	 Use fraction strips and visual aids for understanding. Incorporate real-life contexts for fractions. 	 Concrete: Use food items for fraction learning. Pictorial: Draw fraction models. Abstract: Numerical

					representation of fractions and operations.
	Measurement	- Convert between different units of measure Measure perimeter and area.	Can solve problems involving measurements.Can calculate perimeter and area of simple shapes.	 Allow use of measuring tools and provide varied measurement tasks. Use grid paper for area calculations. 	 Concrete: Measure classroom items for perimeter. Pictorial: Area and perimeter diagrams. Abstract: Write formulas for area and perimeter (e.g., A = I × w).
	Geometry	 Identify and classify quadrilaterals and triangles. Understand symmetry and transformations. 	Can identify and create symmetrical shapes.Can perform translations and reflections.	 Use geometric tools for hands-on learning. Provide art materials for symmetry activities. 	 Concrete: Use shapes for classification. Pictorial: Draw shapes with lines of symmetry. Abstract: Write rules for transformations.
Year 5	Number and Place Value	 Read, write, and compare numbers up to 1,000,000. Understand decimal place value. 	Can round numbers to any place value.Can interpret and compare decimal numbers.	Use number charts and interactive activities.Differentiate tasks based on ability levels.	 Concrete: Base ten materials for understanding large numbers. Pictorial: Decimal grids. Abstract: Write numbers in expanded and decimal forms.
	Addition and Subtraction	- Use column methods for addition and subtraction of large numbers.	- Can solve multi-step problems involving addition and subtraction with large numbers.	Provide additional support for complex calculations.Use calculators for verification.	 Concrete: Use manipulatives to represent calculations. Pictorial: Column method representations. Abstract: Written algorithms for large number operations.
	Multiplication and Division	 - Multiply and divide numbers by two-digit numbers. - Understand factors and multiples. 	 Can solve multi-step problems involving multiplication and division. Can find factors and multiples. 	 Provide practice through games and cooperative learning. Use visual aids for understanding factors. 	- Concrete: Use arrays and grouping for multiplication Pictorial: Factor trees Abstract: Write multiplication and division equations with two-digit numbers.

	Measurement Geometry	- Add and subtract fractions with unlike denominators Multiply and divide fractions. - Convert between different units of measure (including metric and imperial) Calculate volume and area of complex shapes Understand 3D shapes and their properties Classify angles and identify types of angles.	 Can simplify fractions. Can solve multi-step problems involving fractions. Can solve problems involving measurements and conversions. Can calculate the area of triangles and parallelograms. Can identify and describe the properties of 3D shapes. Can measure and compare angles. 	 Use fraction strips and visual aids for understanding. Incorporate real-life contexts for fractions. Allow use of measuring tools and provide varied measurement tasks. Use grid paper for area calculations. Use geometric tools for hands-on learning. Provide art materials for shape exploration. 	- Concrete: Use food items for fraction operations Pictorial: Draw models of fraction multiplication Abstract: Numerical representation of fraction operations Concrete: Measure items with rulers and scales Pictorial: Draw complex shapes for area calculations Abstract: Write formulas for area and volume Concrete: Use 3D models for understanding shapes Pictorial: Draw angles and label them Abstract: Write angle
Year 6	Number and Place Value	- Read, write, and compare numbers up to 10,000,000 Understand negative numbers and their applications.	- Can round numbers to any place value Can interpret and compare decimal numbers.	- Use number charts and interactive activities Differentiate tasks based on ability levels.	classifications. - Concrete: Use base ten materials for understanding large numbers. - Pictorial: Decimal grids. - Abstract: Write numbers in expanded and decimal forms.
	Addition and Subtraction	 Use mental strategies for addition and subtraction. Solve multi-step problems with large numbers. 	- Can solve multi-step problems involving addition and subtraction with large numbers.	 Provide additional support for complex calculations. Use calculators for verification. 	 Concrete: Use manipulatives to represent calculations. Pictorial: Column method representations. Abstract: Written algorithms for large number operations.

N	Multiplication	- Multiply and divide by	- Can solve multi-step	- Provide practice	- Concrete: Use visual aids for
a	and Division	fractions and decimals.	problems involving	through games and	understanding ratios.
		- Solve problems involving	multiplication and division.	cooperative learning.	- Pictorial: Ratio diagrams.
		ratios and proportions.	- Can find ratios and	- Use visual aids for	- Abstract: Write equations for
			proportions.	understanding ratios.	ratios and proportions.
F	ractions	- Add and subtract	- Can simplify fractions.	- Use fraction strips and	- Concrete: Use food items for
		fractions with unlike	- Can solve multi-step	visual aids for	fraction operations.
		denominators.	problems involving	understanding.	- Pictorial: Draw models of
		- Multiply and divide	fractions.	- Incorporate real-life	fraction multiplication.
		fractions.		contexts for fractions.	- Abstract: Numerical
					representation of fraction
					operations.
N	Measurement	- Calculate surface area and	- Can solve problems	- Allow use of measuring	- Concrete: Measure items with
		volume of 3D shapes.	involving measurements	tools and provide varied	rulers and scales.
		- Solve problems involving	and conversions.	measurement tasks.	- Pictorial: Draw complex
		time and money.	- Can calculate the area of	- Use grid paper for area	shapes for area calculations.
			complex shapes.	calculations.	- Abstract: Write formulas for
					surface area and volume.
G	Geometry	- Understand	- Can create and identify	- Use geometric tools for	- Concrete: Use 3D models for
		transformations and	symmetrical patterns.	hands-on learning.	understanding shapes.
		symmetry.	- Can describe and compare	- Provide art materials for	- Pictorial: Draw angles and
		- Identify and describe 3D	3D shapes based on	shape exploration.	label them.
		shapes and their	properties.		- Abstract: Write angle
		properties.			measurements and
					classifications.