

Mathematical Language

As part of our School Improvement plan for Numeracy we put a mathematical language plan together. The plan identifies the terms and phrases each child should experience at the different levels of their education. We have presented the language under the appropriate strands and strand units.

<u>Strand:</u>	<u>Strand Unit:</u>	<u>Language: Junior Infants</u>	
<u>Early Mathematical Activities</u>	<i>Classifying</i>	Colours Big Bigger Biggest Long/Tall Longer/Taller Longest/Tallest Wide Wider Widest Heavy Heavier Heaviest Is the same as I like Rough Red things	Heaviest Is the same as I like Rough Red things 2-D Shapes Small Smaller Smallest Short Shorter Shortest Narrow Narrower Narrowest Light Lighter Lightest Is not the same as/Is different to I don't like Smooth Things that are not red
	<i>Matching</i>	Lollipop Sticks More than Enough	Unifix Cubes Less than As many as
	<i>Comparing</i>	Starting Point	(Longer/shorter/etc.) Than
	<i>Ordering</i>	First Next Before Start	Last After Finish
<u>Number</u>	<i>Counting</i>	One (1) Three (3) Five (5) Seven (7) Nine (9) Number Count How many?	Two (2) Four (4) Six (6) Eight (8) Ten (10) None Count up to...

	<i>Comparing and Ordering</i>	More than Same as First Too many	Less than/Fewer than As many as Last Not enough
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		Enough	About the same as
	<i>Analysis of Number</i>	_ and _ makes _ _ and _ is the same as _ and _ Altogether	_ is the same as _ and _ Zero (0) Left Add
<u>Algebra</u>	<i>Extending Patterns</i>	Next Pattern	Before
<u>Shape and Space</u>	<i>Spatial Awareness</i>	Over Up On In Straight lines	Under Down Beside Outside Moving in... Curved lines
	<i>3-D Shapes</i>	Roll/do not roll Corner	Fit together/do not fit Together Stack(ed)
	<i>2-D Shapes</i>	Square Triangle Round Thick Shape	Circle Rectangle Not round Thin Corner
<u>Measures</u>	<i>Length</i>	Long Longer than Tall Wide Wider than	Short Shorter than Taller than Narrow Narrower than
	<i>Weight</i>	Heavy Heavier Balance	Light Lighter Weigh
	<i>Capacity</i>	Full Empty Holds less than	Nearly full Holds more than Holds as much as
	<i>Time</i>	Morning Night Lunchtime Early Monday Wednesday Friday Sunday Weekend	Evening Day Teatime Bedtime Late Tuesday Thursday Saturday School days
	<i>Money</i>	Cent 1c 5c Sell Coins	Euro 2c Buy Spend How much?
<u>Data</u>	<i>Recognising</i>	Sort	Enough

	<i>and interpreting data</i>	More than Less than	As many as	
Naíonáin Shinsearacha				
<u>Strand:</u>	<u>Strand Unit</u>	<u>Language</u>	<u>Language</u>	
<u>Number</u>	<i>Counting</i>	Zero (0) – Twenty (20)		
	<i>Comparing and Ordering</i>	Second Third	How many more?	
	<i>Analysis of Number</i>	Number line/strip Count on _ Minus/Take Away/Subtract (-) Guess	Start at _ Count back Plus (+) Same as (=)	
<u>Shape and Space</u>	<i>Spatial Awareness</i>	Above Near Far Right	Below Left Through Behind Stop	
	<i>3-D Shapes</i>	Cube Cuboid Sphere Cylinder Edge Corner	Straight Curved Round Flat Roll Face	
	<i>2-D Shapes</i>	Straight Curved Smaller	Flat Side Larger	
<u>Measures</u>	<i>Length</i>	As long as As wide as As high as High Higher Longest	Shortest Highest Guess Measure Length Height Width	
	<i>Weight</i>	Weight Size Shape Balance	Order Check Guess	
	<i>Capacity</i>	Capacity Containers Fill Amount Compare	Guess Check Record Results	
	<i>Time</i>	Time Yesterday Tomorrow Today	Week Day O'clock Birthday	

		Seasons Soon Net yet	Festivals (Christmas, Back to school...) Holidays Day
	<i>Money</i>	Cent (1-20) Change Cost Price Cheap	Expensive Too much Too little Sell amount
<u>Data</u>	<i>Recognising and interpreting data</i>	Groups Criteria Criterion	With/without ... Choose

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<u>Number</u>	<i>Counting and numeration</i>	Re-count Number 0-99 Numeral	Number line Hundred square Guess Estimate
		Set Count on Count back	Compare Less than More than About the same as
	<i>Comparing and ordering</i>	How many	First – tenth Patterns
	<i>Place Value</i>	Tens Units	Coins (1c/10c) Record
	<i>Operations</i>	Addition Number Number sentence Number line Hundred square Count on Count back Counting in twos/threes... Doubles Near double Pair Number stories Renaming	Guess Estimate Check Notation board Left How many do I need Fewer Subtraction Difference Symbols The same as Equals Number balance

	<i>Fractions</i>	Half	
<u>Algebra</u>	<i>Extending and using patterns</i>	Odd Record	Even Count in ...
<u>Shape and Space</u>	<i>Spatial Awareness</i>	Between Underneath On top of Around	Closed shape Open shape Shape Directions
	<i>2-D Shapes</i>	Semicircle Size Curved/not curved 2-D	Number Length Side
	<i>3-D Shapes</i>	3-D Slide	Vertices
<u>Measures</u>	<i>Length</i>	Length Width Height Guess Compare Measure Record	Widest Metre Nearly a metre A bit more than 1m A bit less than 1m Standard units Same length as
	<i>Weight</i>	Guess Compare Measure Record Heaviest	Lightest Standard units Kilogram Same weight as... Largest Smallest
	<i>Capacity</i>	Guess Measure Pour Litre (l)	Holds the same amount as... Measure Standard unit
	<i>Time</i>	Months of the year Day before Day after Time Calendar	Half past Clock face Clock hands Later Earlier
	<i>Money</i>	1c – 50c	Equal value
<u>Data</u>	<i>Representing and interpreting data</i>	Pictograms	Classify

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<u>Number</u>	<i>Counting and numeration</i>	0 – 199 Between	Before After
	<i>Comparing and ordering</i>	Greater than > Less than <	Ordinal number (extended to the calendar)

		Equal to =	
	<i>Place Value</i>	Hundreds	
	<i>Operations</i>	Plus Minus Add Subtract	Take away Calculations Sum Hundred square
	<i>Fractions</i>	Quarter	
<u>Algebra</u>	<i>Extending and using patterns</i>	Count on Count back	Number patterns Group
<u>Shape and space</u>	<i>Spatial awareness</i>	Full Turn Half turn Quarter turn	Forward Backwards
	<i>2-D Shapes</i>	Oval Differences Two dimensional	Half Quarter
	<i>3-D shapes</i>	Cone	
	<i>Symmetry</i>	Line symmetry	
	<i>Angles</i>	Turn Corners	Measure
<u>Measure</u>	<i>Length</i>	Instruments Centimetre Metre stick	Trundle wheel Tallest
	<i>Area</i>	Cover	Space
	<i>Weight</i>	Half kilogram Quarter kilogram	Scales
	<i>Capacity</i>	Half-litre Quarter-litre	Estimate
	<i>Time</i>	Quarter past Quarter to Date January February March April May June	July August September October November December Spring Summer Autumn Winter
<u>Data</u>	<i>Representing and Interpreting data</i>	Table Chart	Block graph

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<u>Number</u>	<i>Place Value</i>	Whole numbers Thousand Abacus Notation board Base ten	Expanded Value Next Whole numbers Decimal numbers
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		Digit Three-digit	One place of decimals One decimal place
	<i>Operations</i>	Rounding Repeated addition Treble Multiplication Division Sharing Remainder Tenths	Equal groups Repeated subtraction Half Quotient Product Fractions Equivalent fractions Denominators
<u>Algebra</u>	<i>Number patterns and sequences</i>	Sequences (14, 24, 34, 44,...)	
<u>Shape and space</u>	<i>2-D shapes</i>	Hexagon Irregular shapes Angles Parallel	Non-parallel Geostrips Geoboards Tessellate
	<i>3-D shapes</i>	Triangular prism Pyramid	Shape nets
	<i>Lines and angles</i>	Vertical Horizontal Parallel Angles Clockwise	Anti-clockwise Greater than... Less than... Equal to...
<u>Measure</u>	<i>Weight</i>	Gram	
	<i>Capacity</i>	Millilitre Tall Low	Wide Narrow
	<i>Time</i>	Daily Weekly Monthly Annual A long time ago Last year Last month Yesterday Immediately	In a week's time For a short time For a long time Five past/to Ten past/to Twenty past/to Twenty-five past/to Analogue Digital
<u>Data</u>	<i>Representing and interpreting data</i>	Strengths	Limitations
	<i>Chance</i>	Possible Impossible Might Certain Not sure	Likely Least likely Most likely Results

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<u>Number</u>	<i>Place Value</i>	0-9999 Four-digit	
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	<i>Operations</i>	Two places of decimals	Two decimal places Word problems
	<i>Fractions</i>	Hundredths	
<u>Algebra</u>	<i>Number patterns and sequences</i>	0-9999	
<u>Shape and space</u>	<i>2-D shapes</i>	Equilateral triangle Isosceles triangle Scalene triangle Parallelogram	Rhombus Pentagon Octagon
	<i>Symmetry</i>	Horizontal Vertical	Diagonal
	<i>Lines and angles</i>	Oblique Perpendicular Diagonals Intersecting lines	Acute angle Obtuse angle Right angle
<u>Measures</u>	<i>Length</i>	Perimeter	Kilometre
	<i>Area</i>	Sq. cm (cm ²)	Sq. m (m ²)
	<i>Money</i>	€	
<u>Data</u>	<i>Representing and interpreting data</i>	Bar-line graphs	Scale
	<i>Chance</i>	Chance Unlikely	Never Definitely

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<u>Number</u>	<i>Operations</i>	Algorithm	
	<i>Fractions</i>	Improper fractions Mixed numbers	thousandths
	<i>Decimals and percentages</i>	Percent	
	<i>Number Theory</i>	Prime number Composite number Square number	Rectangular number Factor Multiple
<u>Algebra</u>	<i>Directed numbers</i>	Positive number	Negative number
<u>Shape and space</u>	<i>2-D shapes</i>	Quadrilateral Trapezium	Diameter Radius
	<i>3-D shapes</i>	Tetrahedron Vertex	Vertices
	<i>Lines and angles</i>	Relex angle Rotation Degrees	Straight angle Protractor Set square
<u>Measures</u>	<i>Length</i>	Metric unit	Millimetre
	<i>Area</i>	Breadth	
	<i>Capacity</i>	Graduated jug	
	<i>Money</i>	'value for money'	
<u>Data</u>	<i>Representing and interpreting data</i>	Pie chart Statistics	Least frequent Least popular

		Most frequent Most popular	Average
	<i>Chance</i>	Outcome Processes	Frequency table Frequency chart

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<u>Number</u>	<i>Operations</i>	Compute	
	<i>Fractions</i>	Ratio Natural number	Multiple
	<i>Decimals and percentages</i>	Profit Loss Discount VAT	Interest Increase Decrease
	<i>Number theory</i>	Square root	Exponential
	<i>Variables</i>	Variable	
<u>Shape and space</u>	<i>2-D shapes</i>	Properties	Co-ordinates
		Circumference	
	<i>3-D shapes</i>	Octahedron	
<u>Measures</u>	<i>Area</i>	Surface area Acre	Hectare Scale plan
	<i>Capacity</i>	Volume	
	<i>Time</i>	Time zones Time Distance	Average speed $D = T \times S$
	<i>Money</i>	Currency Convert	Exchange rate
<u>Data</u>	<i>Representing and interpreting data</i>	Trend graph	Data set

