

Mathletics

Ireland Curriculum

Activities (Courses)



3rd - 4th Class

March, 2026



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3rd Class

Number

Place value and base ten


Explore equivalent numerical expressions of numbers using the base ten system	
Activities	
Place value	Which is Bigger?
	Which is Smaller?
	Which Is Greater?
	Which Is Less?
	Smallest and largest numbers
	Place Value 2
	Place Value - Thousands
	Place Value 3
	Repartition Two-digit Numbers
	Expanding Numbers
	Partition and Rename 1
	Model Numbers
	Place Value Partitioning
	Nearest Ten?
Nearest Hundred?	
Nearest Thousand?	

Sets and operations

Understand and apply flexibly the four operations; and the relationships between operations	
Activities	
Addition and subtraction (mental)	Doubles and near doubles
	Complements to 10, 20, 50
	Complements to 50 and 100
	Commutative Property of Addition
	Pyramid Puzzles 1
	Bar Model Problems 1
	Magic Mental Addition
	Magic Mental Subtraction
	Add 3 Numbers: Bonds to Multiples of 10
	Add 3 Numbers: Bonds to 100
	Estimate Sums
	Estimate Differences
	Repartition to Subtract
	Split Add and Subtract
Jump Add and Subtract	
Partition Puzzles 1	
Addition (written)	Columns that Add
	Add Two 2-Digit Numbers
	Add 3-Digit Numbers
	Add Three 2-Digit Numbers
	Add Numbers: Regroup a Ten

	Column Addition 1
	Add Three 2-Digit Numbers: Regroup
Subtraction (written)	Columns that Subtract
	2-Digit Differences
	Subtract Numbers
	3-Digit Differences
	Subtract Numbers: Regroup
	2-Digit Differences: Regroup
Multiplication facts	Groups of Two
	Groups of Five
	Groups of Ten
	Groups of Three
	Groups of Four
	Groups of Eight
	Groups of Six
	Groups of Seven
Groups of Nine	
Division facts	Dividing Twos
	Dividing Fives
	Dividing Tens
	Dividing Threes
	Dividing Fours
	Dividing Eights
	Dividing by Six
	Dividing Nines
	Dividing Sevens
Multiplication and division	Arrays 2
	Multiplication Arrays
	Frog Jump Multiplication
	Multiplication Turnarounds
	Related Facts 2
	Fill the Jars
	Divide Into Equal Groups
	Frog Jump Division
	Multiply: 2-Digit by 1-Digit
	Bar Model $\times \div$

Fractions

Compare and express in equivalent terms; and order fractions	
 Activities	
Fractions	Halves and Quarters
	Doubles and Halves to 20
	Thirds and Sixths
	Model Fractions
	Identifying Fractions on a Number Line
	Identifying Fractions Beyond 1
Part-Whole Rods 1	

Calculate the fraction of quantities and express in multiple ways

Activities

Fractions

- What Mixed Number Is Shaded?
- Mixed and Improper Fractions on a Number Line
- Comparing Fractions 1
- Compare fractions 1a
- Part-Whole Rods 1
- Equivalent Fraction Wall 1
- Equivalent Fractions on a Number line 1
- Fractions of a collection 1
- Unit Fractions

Algebra

Patterns, rules and relationships

Identify rules that describe the structure of a pattern and use these rules to make predictions

Activities

Patterns and equations

- Increasing patterns
- Decreasing Patterns
- Skip Counting
- Describing Patterns
- Pick the Next Number
- Odd and Even Numbers 1

Represent the relationships between quantities

Activities

Patterns and equations

- I am Thinking of a Number!

Expressions and equations

Represent and express problems with known and unknown values in different ways to include the use of appropriate letter-symbols or words

Activities

Patterns and equations

- Missing Values
- Missing Numbers

Measures

Measuring

Compare, estimate and measure length, weight, capacity, area and volume using appropriate instruments and record and communicate appropriately

Activities

Length, perimeter, area, volume

- Which Measuring Tool?
- How Long is That?
- Measure to the Nearest Half Centimetre
- Ordering Lengths (cm)
- Perimeter of Shapes
- Equal Areas

	Area of Shapes
	How many Blocks?
Weight and capacity	How Heavy?
	How Heavy is it?
	Ordering Mass (g)
	How Full?
	Using a Litre
	Ordering Volumes (l)

Identify the relationship between equivalent units of measurement, and rename measures using equivalent units.

 **Activities**

Length, perimeter, area, volume	Kilometre Conversions
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Time

Compare, approximate and measure time using appropriate units of measurement

 **Activities**

Time and money	Five Minute Times
	Five Minute Times
	Five Minute Times

Identify the relationship between different units and representations of time

 **Activities**

Teacher directed

Money

Transfer knowledge of the base ten system in number to monetary contexts and use for purposes of calculation

 **Activities**

Time and money	Who's got the Money?
	Money

Shape and Space

Spatial awareness and location

Describe, interpret and record directional instructions and location

 **Activities**

Shape and space: 2D	Coordinate Meeting Place
	Map Coordinates
	What Direction was That?

Compare and classify angles, recognising them as a property of a shape and as a description of a turn

 **Activities**

Shape and space: 2D	Equal Angles
	Comparing Angles
	What Line am I?
	Right Angle Relation

Shape

Investigate and analyse the properties of 3-D and 2-D shapes and identify classes of shapes based on these properties	
Activities	
Shape and space: 2D	Collect More Shapes
	Collect the Polygons
	Count Sides and Corners
Shape and space: 3D	Count the Corners
	How many Edges?
	How Many Faces?
	Faces, Edges, and Vertices 1
	Match the Solid 2
	Select the Objects
	Relate Shapes and Solids

Represent shapes with drawings and models, and calculate dimensions of shapes
Activities
Teacher directed

Transformation

Model and explain the effects of transformations on shapes and line segments	
Activities	
Shape and space: 2D	Symmetry
	Lines of Symmetry
	Flip, Slide, Turn

Data and Chance

Data

Pose questions of interest and collect, display and critically analyse data in a range of ways for a range of purposes and communicate the findings	
Activities	
Chance and data	Tally Charts
	Reading from a Bar Chart
	Interpreting Tables
	Making Picture Graphs: With Scale

Chance

Describe and test predictability and (un) certainty in events	
Activities	
Chance and data	Will it Happen?
	What are the Chances?
	Probability Scale
	Possible Outcomes

4th Class

Number

Place value and base ten


Explore equivalent numerical expressions of numbers using the base ten system	
Activities	
Place value	Place Value to Millions
	Numbers in Words
	Numbers from Words to Digits 1
	Numbers from Words to Digits 2
	Partition and Rename 2
	Expanded Notation
	Place Value Partitioning
	Nearest 100?
	Nearest 1000?
Rounding Numbers	
Decimals	Decimal Place Value
	Decimal Order 1
	Comparing Decimals 1
	Decimals from Words to Digits 1
	Nearest Whole Number


Sets and operations

Understand and apply flexibly the four operations; and the relationships between operations	
Activities	
Addition and subtraction	Add 3-Digit Numbers
	Add Two 2-Digit Numbers: Regroup
	Add 3-Digit Numbers: Regroup
	3-Digit Differences with Zeros
	Add Multi-Digit Numbers 1
	Adding Colossal Columns
	2-Digit Differences: Regroup
	3-Digit Differences: 1 Regrouping
	Column Subtraction
	Bump Add and Subtract
	Split Add and Subtract
	Jump Add and Subtract
	Compensation - Add
	Compensation - Subtract
	Partition Puzzles 2
Multiplication	Times Tables
	Multiples of
	Frog Jump Multiplication
	Multiplication Turn-Abouts
	Equivalent facts - multiply
	Multiply 3 single-digit numbers
Multiply Multiples of 10	

	Multiply More Multiples of 10
	Multiplying by 10, 100, 1000
	Estimate Products
	Grid Methods 1
	Grid Methods 2
	Double and Halve to Multiply
	Mental Methods Multiplication 2
	Contracted Multiplication
	Multiply: 2-Digit by 1-Digit
	Multiply: 1-Digit Number, Regroup
Division	Division Facts 1
	Fact Families: Multiply and Divide
	Find the Factor
	Divide Into Equal Groups
	Frog Jump Division
	Divide: 1-Digit Divisor 1
	Divide: 1-Digit Divisor 2
	Remainders by Arrays
	Divide: 1-Digit Divisor, Remainder
	Estimate Quotients
	Problems: Multiply and Divide
Decimals	Decimal Complements
	Magic Symbols 2
	Add Decimals 1
	Subtract Decimals 1
	Decimal by Whole Number

Fractions


Compare and express in equivalent terms; and order fractions	
 Activities	
Fractions calculations	Equivalent Fraction Wall 2
	Compare Fractions 1a
	Compare Fractions 1b
	Comparing Fractions 2
	Simplify Fractions
	Fractions of a Collection 2
	Add: Common Denominator
	Subtract Like Fractions
	Add: No Common Denominator
	Subtract: No Common Denominator
Decimals	Convert Decimals to Fractions 2


Calculate the fraction of quantities and express in multiple ways	
 Activities	
Fractions concept	What Fraction is Shaded?
	Uneven partitioned shapes 2
	Identifying Fractions on a Number Line
	Counting with Fractions on a Number Line
	Mixed and Improper Fractions on a Number Line
	Partition into equal parts

Fractions calculations	Fraction Fruit Sets 1
	Fraction Length Models 1
	Fraction Length Models 2
	Fraction Word Problems
	Add: Common Denominator
	Subtract Like Fractions
	Add: No Common Denominator
	Subtract: No Common Denominator


Algebra

Patterns, rules and relationships

Identify rules that describe the structure of a pattern and use these rules to make predictions	
 Activities	
Patterns	Ascending Order
	Descending Order
	Describing Patterns
	Pick the Next Number
	Skip Counting
	Fit the Conditions 1
	Table of Values


Represent the relationships between quantities	
 Activities	
Equations	I am Thinking of a Number!
	Mass Word Problems
	Multiply and Divide Problems 1
	Bar Model $\times \div$

Expressions and equations

Represent and express problems with known and unknown values in different ways to include the use of appropriate letter-symbols or words	
 Activities	
Equations	Find the Missing Number 1
	Multiply and Divide Problems 1

Measures

Measuring

Compare, estimate and measure length, weight, capacity, area and volume using appropriate instruments and record and communicate appropriately	
 Activities	
Length, perimeter, area, volume	Measure to the Nearest Half Centimetre
	Measuring Length
	Perimeter of Shapes
	Perimeter: Squares and Rectangles
	Area of Shapes
	Calculate Areas of Squares and Rectangles

	How many Blocks?
Weight and capacity	Which Unit of Measurement?
	How Heavy is it?

Identify the relationship between equivalent units of measurement, and rename measures using equivalent units.	
Activities	
Length, perimeter, area, volume	Centimetres and Metres
	Kilometre Conversions
Weight and capacity	Kilogram Conversions
	Litre Conversions

Time

Compare, approximate and measure time using appropriate units of measurement	
Activities	
Time and money	What is the Time?
	24 Hour Time
	Elapsed Time
	Time Mentals
	Using a Calendar

Identify the relationship between different units and representations of time	
Activities	
Time and money	Time Conversions: Whole Numbers 1
	Time Conversions: Whole Numbers 2

Money

Transfer knowledge of the base ten system in number to monetary contexts and use for purposes of calculation	
Activities	
Time and money	Money


Shape and Space


Spatial awareness and location

Describe, interpret and record directional instructions and location	
Activities	
Shape and space: 2D and 3D	What Direction was That?
	Using a Key
	Coordinate Meeting Place


Compare and classify angles, recognising them as a property of a shape and as a description of a turn	
Activities	
Lines and angles	Comparing Angles
	Right Angle Relation
	Estimating Angles
	What Type of Angle 2?

Shape

Investigate and analyse the properties of 3-D and 2-D shapes and identify classes of shapes based on these properties	
 Activities	
Lines and angles	What Line am I?
	What Pair of Lines Am I?
Shape and space: 2D and 3D	Shapes
	Triangle Tasters
	Sides, Angles and Diagonals
	Symmetry or Not?
	Rotational Symmetry of Shapes
	Relate Shapes and Solids
	Collect the Objects 2
	What Prism am I?
	Prisms and Pyramids
	Faces, Edges, and Vertices 1
Faces, Edges and Vertices	


Represent shapes with drawings and models, and calculate dimensions of shapes
 Activities
Teacher directed

Transformation


Model and explain the effects of transformations on shapes and line segments	
 Activities	
Shape and space: 2D and 3D	Transformations

Data and Chance

Data

Pose questions of interest and collect, display and critically analyse data in a range of ways for a range of purposes and communicate the findings	
 Activities	
Chance and data	Bar Graphs 1
	Bar Graphs 2
	Line Graphs: Reading
	Histograms

Chance

Describe and test predictability and (un) certainty in events	
 Activities	
Chance and data	Fair Games
	What are the Chances?
	How many Combinations?
	Probability Scale
	Introductory Probability



For more information about Mathletics,
contact our friendly team.

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