

IN UNITY WE SUCCEED

MATHS

2023 - 2024

N - 11 CURRICULUM MATHS



NURSERY - YEAR 11

FCAT
The best we can be

• RESILIENCE • INTEGRITY • EXCELLENCE • PRIDE • AMBITION • RESPECT

Nursery

| Unity Early Years Curriculum | Unity Pre-School Curriculum |
|--|---|
| Nursery (2-3 years) | Nursery (3-4 years) |
| <i>Number</i> | <i>Number</i> |
| <ul style="list-style-type: none"> Combine objects like stacking blocks and cups. Put objects inside others and take them out again Take part in finger rhymes with numbers. React to changes of amount in a group of up to three items. Compare amounts, saying 'lots', 'more' or 'same'. Develop counting-like behaviour, such as making sounds, pointing or saying some numbers in sequence Count in everyday contexts, sometimes skipping numbers – '1-2-3-5' | <ul style="list-style-type: none"> Fast recognition of up to 3 objects, without having to count them individually ('subitising'). Recite numbers past 5. Say one number for each item in order: 1,2,3,4,5. Know that the last number reached when counting a small set of objects tells you how many there are in total ('cardinal principle'). Show 'finger numbers' up to 5. Link numerals and amounts: for example, showing the right number of objects to match the numeral, up to 5. Experiment with their own symbols and marks as well as numerals. Solve real world mathematical problems with numbers up to 5. <i>Compares two small groups of up to five objects, saying when there are the same number of objects in each group, e.g. You've got two, I've got two. Same!</i> <i>Begin to recognise numerals 0 to 10</i> <i>Uses some number names and number language within play, and may show fascination with large numbers</i> <i>Beginning to recognise that each counting number is one more than the one before.</i> 1:1 count securely - linking numerals to an amount up to 5. |
| <i>Numerical patterns</i> (shape and measures) | <i>Numerical patterns</i> (shape and measures) |
| <ul style="list-style-type: none"> Climb and squeeze themselves into different types of spaces. Build with a range of resources. Complete inset puzzles Compare sizes, weights etc. using gesture and language - 'bigger/little/smaller', 'high/low', 'tall', 'heavy'. Notice patterns and arrange things in patterns | <ul style="list-style-type: none"> Compare quantities using language: 'more than', 'fewer than'. Talk about and explore patterns and 2D and 3D shapes (for example, circles, rectangles, triangles and cuboids) using informal and mathematical language: 'sides', 'corners'; 'straight', 'flat', 'round'. Understand position through words alone – for example, "The bag is under the table," – with no pointing. Describe a familiar route. Discuss routes and locations, using words like 'in front of' and 'behind'. Make comparisons between objects relating to size, length, weight and capacity. Select shapes appropriately: flat surfaces for building, a triangular prism for a roof etc. Combine shapes to make new ones – an arch, a bigger triangle etc. Talk about and identifies the patterns around them. For example: stripes on clothes, designs on rugs and wallpaper. Use informal language like 'pointy', 'spotty', 'blobs' etc. Extend and create ABAB patterns – stick, leaf, stick, leaf. Notice and correct an error in a repeating pattern. Begin to describe a sequence of events, real or fictional, using words such as 'first', 'then...' <i>In meaningful contexts, finds the longer or shorter, heavier or lighter and more/less full of two items.</i> |

Reception

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--------|---------------------|--------|--------|-------------------|--------|--------|-----------------|--------|--------|----------------|---------|---------|
| Autumn | Getting to know you | | | Just like me | | | It's me 1,2,3 | | | Light and Dark | | |
| Spring | Alive in 5 | | | Growing 6,7,8 | | | Building 9,10 | | | Consolidation | | |
| Summer | To 20 and beyond | | | First, then, now. | | | Find my pattern | | | On the move | | |

Year 1

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--------|-------------------------------------|--------|---|-------------------|--------|-------------------------------------|--|--------------------------------|-----------------------|--------------------------------|---------|--------------------|
| | Number: Place value (within 10) | | | | | Consolidation | Number: Addition and Subtraction (within 10) | | | | | Geometry: Shape |
| Spring | Number: Place value (within 20) | | Number: Addition and Subtraction (within 20) | | | Number: Place value (within 50) | | Measurement: Length and Height | | Measurement: Weight and volume | | |
| Summer | Number: Multiplication and Division | | | Number: Fractions | | Geometry: Position and direction | Number: Place value (within 100) | | Measurement: Money | Measurement: Time | | Consolidation |

Year 2

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|---------------|---------------------|--------|-------------------------------------|--------|-------------------------------|----------------------------------|--------|-----------------------------------|--------|---|---------|---------|
| Autumn | Number: Place Value | | | | Geometry: Properties of shape | | | Number: Addition and Subtraction | | | | |
| Spring | Measurement: Money | | Number: Multiplication and Division | | | | | Measurement: Length and height | | Measurement: Mass, Capacity and Temperature | | |
| Summer | Statistics | | Number: Fractions | | | Geometry: Position and direction | | Consolidation and problem solving | | Measurement: Time | | |

Year 3

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|---------------|-------------------------------------|--------|--------------------|-----------------------------------|-------------------|--------|-------------------|-------------------------------|-------------------------------------|---|---------|---------------|
| Autumn | Number: Place Value | | | Number: Addition and Subtraction | | | | | Number: Multiplication and Division | | | |
| Spring | Number: Multiplication and Division | | | Measurement: Length and Perimeter | | | Number: Fractions | | | Measurement: Mass, Capacity and temperature | | |
| Summer | Number: Fractions | | Measurement: Money | | Measurement: Time | | | Geometry: Properties of shape | | Statistics | | Consolidation |

Year 4

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|---------------|-------------------------------------|--------|--------------------|--------------------------------------|----------------------------------|-------------------|-------------------------------|----------------------|-------------------------------------|------------------|------------|---------------|
| Autumn | Number: Place Value | | | | Number: Addition and Subtraction | | | Measurement: Area | Number: Multiplication and Division | | | Consolidation |
| Spring | Number: Multiplication and Division | | | Measurement: Length and perimeter | | Number: Fractions | | | | Number: Decimals | | |
| Summer | Number: Decimals | | Measurement: Money | | Measurement: Time | | Geometry: Properties of shape | | Geometry: Position and direction | | Statistics | Consolidation |

Year 5

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|---------------|-------------------------------------|--------|--------|-------------------------------------|--------|-------------------------------------|----------------------------------|--------|---|-------------------------------|------------|------------------------|
| Autumn | Number: Place Value | | | Number: Addition and Subtraction | | Number: Multiplication and Division | | | Number: Fractions | | | |
| Spring | Number: Multiplication and Division | | | Number: Fractions | | | Number: Decimals and percentages | | Measurement: Perimeter and Area | | Statistics | |
| Summer | Geometry: Properties of shape | | | Geometry: Position and direction | | Number: Decimals | | | Number: negative numbers | Measurement: Converting units | | Measurement: Volume |

Year 6

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--------|-------------------------------|--------|----------------|----------------------------------|-------------------------------|------------|---|-----------------------------------|---|---------|---------------|---------|
| Autumn | Number: Place Value | | 4 Operations | | | | Number: Fractions | | | | Consolidation | |
| Spring | Number; Ratio | | Number Algebra | | Number: Decimals | | Number: Fractions, Decimals and Percentages | | Measurement: Perimeter, Area and Volume | | Consolidation | |
| Summer | Geometry: Properties of shape | | | Geometry: Position and Direction | Measurement: Converting units | Statistics | | Consolidation and Transition work | | | | |

Year 7

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--------|---|--------|---|--------------------------------|--------------------------|--|--|--------|--|---------|-------------------------|---------|
| Autumn | Sequences | | Understand and use algebraic notation | | Equality and Equivalence | | Place value and ordering integers and decimals | | Fraction, decimal and percentage equivalence | | | |
| Spring | Solve problems with addition and subtraction | | Solve problems with multiplication and division | | | Fractions and percentages of an amount | Operations and equations with directed number | | Addition and subtraction of fractions | | | |
| Summer | Constructing measuring and using geometric notation | | | Developing geometric reasoning | | | Developing number sense | | Sets and probability | | Prime numbers and proof | |

Year 8

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--------|---------------------------------------|--------|-----------------------|------------------------------|------------------------------------|------------------------------|--------------------------------|--------|--------|---------------------|----------------------|----------------------|
| Autumn | Ratio and scale | | Multiplicative change | | Multiplying and dividing fractions | | Working in the Cartesian plane | | | Representing data | | Tables & Probability |
| Spring | Brackets, equations and inequalities | | | | Sequences | Indices | Fractions and percentages | | | Standard index form | | Number sense |
| Summer | Angles in parallel lines and polygons | | | Area of trapezia and circles | | Line symmetry and reflection | The data handling cycle | | | | Measures of location | |

Year 9

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--------|----------------------------|--------|---------------------------------------|--------|---------------------|--------|-------------------------|--------|--------------------------|------------------------------|---------------------|---------|
| Autumn | Straight line graph | | Forming and solving equations | | Testing conjectures | | Three dimensional shape | | | Constructions and congruency | | |
| Spring | Numbers | | Using percentages | | Maths and money | | Deduction | | Rotation and translation | | Pythagoras' theorem | |
| Summer | Enlargement and similarity | | Solving ratio and proportion problems | | Rates | | Probability | | Algebraic representation | Revision | | |

Year 10

| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|------|--|--|--|---|--|--|---------------------------|
| AT1 | Using number | Using number | Using number | Developing algebra | Developing algebra | Developing algebra | Similarity |
| | Non calc methods | Non calc methods | Non calc methods | Expressions Representing solutions of equations and inequalities | Representing solutions of equations and inequalities | Simultaneous Equations | Trigonometry |
| AT2 | Similarity | Geometry | Geometry | Geometry | Geometry | Geometry | Developing algebra |
| | Trigonometry | Angles and bearings | Angles and bearings | Angles and bearings | Area and working with circles | Area and working with circles | Inequalities |
| Sp1 | Developing algebra | Similarity | Similarity | Proportions and proportional change | Proportions and proportional change | Proportions and proportional change | |
| | Inequalities | Congruence and similarity | Congruence and similarity | Ratios and fractions | Ratios and fractions | Percentages and Interest | |
| Sp2 | Proportions and proportional change | Proportions and proportional change | Proportions and proportional change | Algebra Enhancement | Geometry | Geometry | |
| | Percentages and Interest | Probability | Probability | Algebra revision week | Vectors | Vectors | |
| Sum1 | Delving into Data | Delving into Data | Delving into Data | Using Number | Reasoning with Proportion | | |
| | Collecting, representing and interpreting data | Collecting, representing and interpreting data | Collecting, representing and interpreting data | Non calc methods – functional problems | Rates (Y9 review) | Recall and retention (mocks) | |

| | | | | | | | |
|------|------------------------------|-----------------------------|-----------------------------|---------------------|---------------------|--------------------------|--------------------------|
| Sum2 | | Using number | Using number | Using number | Using number | Expressions | Expressions |
| | Recall and retention (mocks) | Types of number & sequences | Types of number & sequences | Indices & roots | Indices & roots | Manipulating expressions | Manipulating expressions |

Year 11

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--------|-----------------------------|--------|---|--------|---------------------|--------|--|--------------------|--------|--------------|--|---------|
| Autumn | Compound Measures (63/64) | | Congruence and Similarity (66/67) | | Probability (74-77) | | | Revision for Mocks | | Vectors (73) | Simultaneous Equations (78/79) | |
| Spring | Ratio and Proportion Review | | Number Review - Fractions, percentages, rounding, number properties | | | | Geometry and measures review - angles, pythagoras, trigonometry, circles, area, volume | | | | Data review - averages, representing and interpreting data | |
| Summer | Revision | | Revision | | Revision | | | | | | | |

Year 11 H

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|--------|---------------------------------|--------|---|----------------------|-----------------------------------|--------------|----------------------|--------------------|--------|----------------------|--------------------------|---------|
| Autumn | Trigonometry (Higher 11a & 11b) | | Sampling and Representing Data (Higher 12a-12c) | | Further Graphs (Higher 13a & 13b) | | Circle Theorems (15) | Revision for Mocks | | Circle Theorems (15) | Algebraic Fractions (16) | |
| Spring | Functions (17) | | Circle Geometry (14) | Algebraic Proof (18) | Congruence (19) | Vectors (20) | Revision | | | | | |
| Summer | Revision | | Revision | | Revision | | | | | | | |