



Thursby Primary School

Whole School Overview – Mathematics



Below is an overview of the learning focus for each term in each class.

Class teachers may choose to adapt the learning focus to suit their class but must ensure full coverage.

Class 1	Autumn Term	Spring Term	Summer Term
Nursery and Reception	<p style="text-align: center;"><u>Nursery:</u></p> <p>Children will join in with early Mathematical Experiences: Counting rhymes and songs</p> <p>Children will begin to match and sort objects – by one attribute i.e; colour. Children will join in with counting rhymes.</p> <p>Children will practice touch counting objects 1-3.</p> <p>Shapes – Children will become familiar with circles and squares, and use these shapes to make pictures.</p> <p style="text-align: center;"><u>Reception:</u></p> <p>Children will match and sort objects by attributes – size, colour, shape, etc.</p> <p>Number Children will have a deep understanding of 1-3 – including the composition of these numbers and comparing these numbers.</p> <p>Children will have a deep understanding of numbers 1-5 – including representing, composition and comparing of these numbers these numbers.</p> <p>Numerical Patterns Children will verbally say which group has more or less.</p> <p>Children will compare equal and unequal groups.</p> <p>Shape – Circles, Triangles and positional language.</p>	<p style="text-align: center;"><u>Nursery:</u></p> <p>Children will continue to join in with counting Rhymes</p> <p>Children will be practicing counting objects to 5.</p> <p>Shape – Children will explore the shape ‘square’. Children will recite and count objects to 5, and attempt beyond.</p> <p>Children will begin to recognise numerals to five.</p> <p style="text-align: center;"><u>Reception:</u></p> <p style="text-align: center;">Number</p> <p>Children will have a deep understanding of numbers 1-10.</p> <p style="text-align: center;">Numerical Patterns</p> <p>Children will understand and explore the difference between odd and even numbers.</p> <p>Children will explore one more and one less.</p> <p>Children will add and subtract using number sentences.</p>	<p style="text-align: center;"><u>Nursery:</u></p> <p>Children will represent numbers to 5.</p> <p>Children will recognise numeral to five.</p> <p>Children will use mathematical language – tall, short, the same as.</p> <p>Children will confidently recite, count and represent numbers to 5.</p> <p>Shape and pattern – creating pictures.</p> <p style="text-align: center;"><u>Reception:</u></p> <p style="text-align: center;">Number</p> <p>Children will revise number bonds to 5, and attempt number bonds to 10. Children will know number bonds to 10, including doubling facts.</p> <p style="text-align: center;">Numerical Patterns</p> <p>Children will share quantities equally.</p> <p>Children will be able to count beyond 20.</p> <p>Children will be able to solve mathematical problems, adding and subtracting.</p> <p>Shape – matching shapes and extending arrangements</p>



Thursby Primary School

Whole School Overview – Mathematics



<p>Class 2 Year 1 and 2</p>	<p>Place value (within 20) Counting and representing number to 10 Understanding numbers to 20 1 more and 1 less Compare, order, more than, less than.</p> <p>Addition and Subtraction Fact families Number bonds to 10 Number bonds to 20 Addition – add together, add more Add near doubles Add three 1 digit numbers Take away Find the difference</p> <p>Place value (within 100) Count beyond 20 Count in 10s Groups of 10s and 1s Partitioning Use of number lines Compare and order numbers</p> <p>Shape Recognise and name 2-D and 3-D shapes Sides, vertices and edges of 3D shapes Sort 3D shapes</p>	<p>Addition and Subtraction (within 100) Add and subtract 1 Add and subtract to, from and across a 1 and 10 Add and subtraction two digit numbers Mixed addition and subtraction Number problems</p> <p>Multiplication and Division Count in 2s, 5s and 10s Count in 3s Recognise, add and make equal groups Making arrays Multiplication sentences Multiply by 2,5 and 10. Divide by 2,5 and 10.</p> <p>Length and Height Measure in CM and M Compare and order lengths and heights Four operations involving length and height</p> <p>Statistics Tally charts Block diagrams Draw and interpret pictograms</p> <p style="text-align: center;">Consolidation Week</p>	<p>Money Recognising coins – pounds and pence Counting money Making a pound Finding change</p> <p>Fractions Parts and whole Finding a quarter and half Recognising one third Equivalence of 2 quarters and 1 half Understanding three quarters</p> <p>Time Seconds, hours and minutes Days and Months Half past, quarter to, quarter past Tell the time past and to the hour Tell time to 5 minutes Minutes in an hour Hours in a day Time problems</p> <p>Mass, capacity and temperature Compare mass Measure in g and kg Four operations Compare volume and capacity Measure in ml and L Temperature</p> <p style="text-align: center;">Consolidation Week</p>
<p>Class 3 Year 3 and 4</p>	<p>Number: Place Value Compare and order numbers to 1000 Count in multiples of 4, ,8, 50 and 100 Find 10, 100 or 1000 more or less than a given number, Round to the nearest 10, 100 and 1000, Read Roman numerals to 100, Negative numbers</p> <p>Number: Addition and Subtraction Add and subtract numbers with up to 3 or 4 digits mentally and using formal written methods, Estimate answers to calculations and solve number problems</p> <p>Number: Multiplication and Division</p>	<p>Number: Multiplication and Division Factor pairs, Progress to formal written methods for multiplication and division Solve number problems</p> <p>Measurement: Length and Perimeter Equivalent lengths using mm, cm and m, Perimeter on a grid Perimeter of rectangles Perimeter of rectilinear shapes</p>	<p>Measurement: Time Months and years, Hours in a day, Telling time to 5 minutes and nearest minute, 12 and 24-hour clock, Finding and comparing durations, Analogue-digital time)</p> <p>Number – Decimals Write, compare and order decimals</p> <p>Measurement: Money Pounds and pence</p>



Thursby Primary School

Whole School Overview – Mathematics



	<p>recall and use multiplication and division facts up to 12x12, multiply by 0, 1, 10 and 100</p> <p>Measurement: Area Measurement: Area What is area? Counting squares Comparing area</p>	<p>Number: Fractions A Unit and non-unit fractions Equivalent fractions Count in fractions, Converting mixed to improper Fraction families</p> <p>Mass and Capacity Measure and compare mass and capacity Add and subtract mass and capacity</p> <p>Number: Fractions B Add fractions and mixed numbers Subtract fractions Including from whole amounts Unit and non-unit fractions of amounts Reasoning</p>	<p>Convert money, Add and subtract money, Give change Ordering and estimating money</p> <p>Measurement: Shape Comparing angles Triangles, quadrilaterals and polygons Symmetry 2D shapes</p> <p>Geometry: Position and Direction Plot coordinates Draw 2D shapes Translations</p> <p>Statistics Pictograms Bar charts Tables Interpret charts Introduce line graphs)</p>
<p>Class 4 Year 5 and 6</p>	<p>Number - Place Value (numbers to 1 million, comparing and ordering numbers, partitioning numbers, rounding to the nearest power of 10)</p> <p>Number – Addition and Subtraction (add and subtract numbers with more than 4 digits, inverse operations, find missing numbers, multi-step problems)</p> <p>Number – Multiplication and Division (Multiples, factors, prime numbers, square and cube numbers, multiply and divide by 10, 100 and 1000)</p> <p>Number – Fractions A (equivalent fractions, converting mixed to improper and improper to mixed, comparing and ordering fractions, adding and subtracting fractions)</p> <p>Number: Fractions B Add and subtract fractions Add and subtract mixed numbers</p> <p>Measurement – Converting units (Kilograms and kilometres, millimetres and millilitres, metric and imperial units, converting units of time, timetables)</p>	<p>Ratio Ratio and fractions Scale drawings Scale factors Ratio problems Recipes</p> <p>Algebra Expressions Substitutions Formulae Equations Solving problems with unknowns</p> <p>Number – Decimals Place value Round, add and subtract decimals Multiply and divide by 10,100 and 1000 Multiply and divide decimals by integers</p> <p>Number – Fractions, Decimals and Percentages Comparing and finding equivalent FDP Order FDP Percentages of amounts</p> <p>Measurement – Perimeter, Area and Volume</p>	<p>Geometry – Shape (Measuring angles in degrees and with a protractor, drawing lines and angles accurately, calculating angles on a straight line and around a point, calculating lengths and angles in shapes, regular and irregular polygons, reasoning about 3D shapes)</p> <p>Geometry – Position and Direction (Position in the first quadrant, translation, translation with coordinates, reflection, reflection with coordinates)</p> <p>Consolidation, Themed Projects and Problem Solving</p>



Thursby Primary School

Whole School Overview – Mathematics



		<p>(Measuring and calculating perimeter, area of rectangles, compound shapes and irregular shapes) What is volume, comparing and estimating volume, estimating capacity)</p> <p>Statistics</p> <p>Read, interpret and draw pie charts and line graphs Use line graphs to solve problems Pie charts problems</p>	
--	--	--	--