

Key Stage 1 Mathematics Overview – Year 1 & 2

Learning Objectives	Years 1 & 2	Autumn term
Week 1 - 4		Place Value
<p><u>Year 2</u></p> <p>Number – place value Count in steps of 2, 3 and 5 from 0 and in tens from any number, forward and backward. Recognise the place value of each digit in a two digit number (tens, ones) Identify, represent and estimate numbers to 100 using different representations including the number line. Compare and order numbers from 0 up to 100; use <, > and = signs. Read and write numbers to at least 100 in numerals and words. Use place value and number facts to solve problems.</p>		
<p>Geometry: Shape Recognise 2-D and 3-D shapes. Count sides on 2-D shapes. Count vertices on 2-D shapes. Draw 2-D shapes.</p>		
<p><u>Year 1</u></p> <p>Number: Place Value Count to ten, forwards and backwards, beginning with 0 or 1, or from any given number. Count, read and write numbers to 10 in numerals and words. Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least. Given a number, identify one more or one less. Count in multiples of twos Count to twenty, forwards and backwards, beginning with 0 or 1, from any given number. Count, read and write numbers from 1 to 20 in numerals and words.</p>		

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Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least.

Count in multiples of twos and fives

Geometry: Shape

Recognise and name 3-D shapes.

Sort 3-D shapes.

Recognise and name 2-D shapes.

Sort 2-D shapes.

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Learning Objectives	Years 1 & 2	Autumn term
Week 5 - 13		Addition and Subtraction
<u>Year 2</u> Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100. Show that the addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. Add and subtract numbers using concrete objects, pictorial representations, and mentally, including a two digit number and ones; a two digit number and tens; two two digit numbers; adding three one digit Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. Solve problems with addition and subtraction: using concrete objects and pictorial representations, mental including those involving numbers, money, quantities and measures; applying their increasing knowledge of mental and written methods.		
Geometry: Shape Lines of symmetry on shapes. Use lines of symmetry to complete shapes. Sort 2-D shapes. Count faces on 3-D shapes. Measurement: Length and Height Measure in centimetres. Measure in metres.		

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Year 1

Represent and use number bonds and related subtraction facts (within 10)

Add and subtract one digit numbers (to 10), including zero.

Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs.

Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems.

Represent and use number bonds and related subtraction facts within 20.

Add and subtract one digit and two digit numbers to 20, including zero.

Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs.

Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7 = ? - 9$

Geometry: Shape

Patterns with 2-D and 3-D shapes.

Consolidation of shape learning objectives (using alternative activities to the White Rose scheme).

Measurement: Length & Height

Compare lengths and heights.

Measure length using objects.

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Learning Objectives	Years 1 & 2	Spring term
Week 1 - 8		Multiplication and Division
<u>Year 2</u> Recall and use multiplication and division facts for the 2, 5 and 10 times tables, including recognising odd and even numbers. Calculate mathematical statements for multiplication and division within the multiplication tables and write them using multiplication (x), division (\div) and equals (=) sign. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts. Show that the multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot.		
Measurement: Length and Height. Compare lengths and heights. Order lengths and height. Four operations with length and heights.		
Measurement: Mass Compare mass. Measure in grams. Measure in kilograms. Four operations with mass.		
Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number. Count, read and write numbers from 1-100 in numerals and words.		

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Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than, most, least.

Given a number, identify one more and one less

Count in multiples of twos, fives and tens.

Solve one step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher

Count in multiples of twos, fives and tens.

Measurement: Length and Height

Measure length in centimetres.

Measurement: Mass

Heavier and Lighter.

Measure mass.

Compare mass.

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Learning Objectives	Years 1 & 2	Spring term
Week 8-12		Money
<u>Year 2</u>		
Recognise and use symbols of pounds (£) and pence (p); combine amounts to make a particular value.		
Find different combinations of coins that equal the same amounts of money.		
Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change		
Measurement: Volume and Capacity		
Compare Volume and capacity.		
Measure in millilitres.		
Measure in litres.		
Four operations with volume and capacity.		
<u>Year 1</u>		
Represent and use number bonds and related subtraction facts within 20.		
Add and subtract one digit and two digit numbers to 20, including 0.		
Read, write and interpret mathematical statements involving addition (+) subtraction (-) and equals (=) signs.		
Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations		
Recognise and know the value of different denominations of coins and notes.		
Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems.		
Measurement: Volume and Capacity		
Full and empty.		
Compare volume.		
Measure capacity.		
Compare capacity.		

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Learning Objectives	Years 1 & 2	Summer term
Week 1-8		Fractions 4 weeks / Word Problems 4 weeks
<p><u>Year 2</u></p> <p>Recognise, find, name and write fractions $\frac{1}{4}, \frac{2}{4}, \frac{1}{2}, \frac{3}{4}$ of of a length, shape, set of objects or quantity.</p> <p>Write simple fractions for example, $\frac{1}{2}$ of 6 = 3</p> <p>Recognise the equivalence of $\frac{1}{2} = \frac{2}{4}$</p> <p>Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures, applying their increasing knowledge of mental and written methods.</p> <p>Geometry: Position and Direction</p> <p>Language of position.</p> <p>Describe movement.</p> <p>Describe turns.</p> <p>Describe movement and turns.</p> <p>Shape patterns with turns.</p> <p>Measurement: Time</p> <p>O'clock and half past.</p> <p>Quarter past and quarter to.</p> <p>Tell the time past the hour.</p> <p>Tell the time to the hour.</p> <p>Tell the time to 5 minutes.</p> <p>Minutes in an hour.</p> <p>Hours in a day.</p>		

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**Fractions 4 weeks / Word
Problems 4 weeks**

Year 1

Recognise, find and name a half as one of two equal parts of an object, shape or quantity.

Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.

Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems.

Geometry: Position and Direction

Describe turns.

Describe position - left and right.

Describe position – forwards and backwards.

Describe position – above and below.

Ordinal numbers.

Measurement: Time

Before and after.

Days of the week

Months of the year.

Hours, minutes and seconds.

Tell the time to the hour.

Tell the time to the half hour.

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Year 2

Statistics (The timing of when this is taught may vary).

Make tally charts.

Tables.

Block diagrams.

Draw pictograms (1-1).

Interpret pictograms (1-1).

Draw pictograms (2, 5 and 10).

Interpret pictograms (2, 5 and 10).

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