St Patrick's RC Primary School

Mathematics Planning



Year 2

Revised July 2021

<u>Year 2</u>

Yearly Planning

	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: Money		Number: <u>Multiplication</u> and Division	
Spring	Number: Multiplication Stat and <u>Division</u>			stics Geometry: Properties of Shape			Number: Fractions			Measurement: Length and Height	Consolidation	
Summer	Geometry: Position and Direction			Problem solving and efficient methods			C		urement: apacity a emperatu	nd	Investi	gations

<u>Termly Planning – Autumn</u>

Year 2 | Autumn Term | Week 1 to 3 - Number: Place Value



Count objects to 100 and read and write numbers in numerals and words

- Represent numbers to 100
- Tens and ones with a part-whole model

Tens and ones using addition

- Use a place value chart
- Compare objects
- Compare numbers
- Order objects and numbers
- Count in 2s, 5s and 10s

Count in 3s

NC Objectives

Read and write numbers to at least 100 in numerals and in words.

Recognise the place value of each digit in a two digit number (tens, ones).

Identify, represent and estimate numbers using different representations including the number line.

Compare and order numbers from 0 up to 100; use <, > and = signs.

Use place value and number facts to solve problems.

Count in steps of 2, 3 and 5 from 0, and in tens from any number, forwards and backwards.

Year 2 Autumn Term Week 4 to 8 - Number: Addition & Subtraction



Year 2 Autumn Term Week 9 to 10 - Measurement: Money

Overview Small Steps Count money - pence Count money - pounds (notes and coins) Count money - notes and coins make a particular value. Select money Make the same amount Compare money Find the total Find the difference including giving change. Find change Two-step problems

NC Objectives

Recall and use addition and subtraction

facts to ∠∪ fluently, and derive and use related facts up to 100.

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 numbers.

Show that the addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot.

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.

Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.

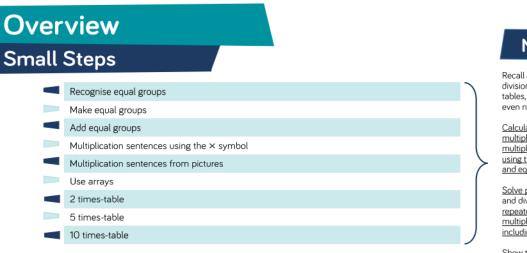
NC Objectives

Recognise and use symbols for pounds (£) and pence (p); combine amounts to

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,

Year 2 | Autumn Term | Week 11 to 12 - Number: Multiplication & Division



NC Objectives

Recall and use multiplication and division facts for the 2, 5 and 10 timestables, including recognising odd and even numbers.

Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) sign.

Solve problems involving multiplication and division, <u>using materials</u>, arrays, repeated addition, mental methods and <u>multiplication</u> 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.

<u>Termly Planning – Spring</u>

Year 2 | Spring Term | Week 1 to 2 - Number: Multiplication & Division



Make equal groups – sharing					
Make equal groups – grouping					
Divide by 2					
Odd & even numbers					
Divide by 5					
Divide by 10					

NC Objectives

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 the multiplication (\times), division (\div) and equals (=) signs.

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.

Year 2 | Spring Term | Week 3 to 4 - Statistics

Overview Small Steps

- Make tally charts
- Draw pictograms (1-1)
- Interpret pictograms (1-1)
- Draw pictograms (2, 5 and 10)
- Interpret pictograms (2, 5 and 10)
- Block diagrams

Year 2 | Spring Term | Week 5 to 7 - Geometry: Properties of Shape

Overview Small Steps

- Recognise 2-D and 3-D shapes
- Count sides on 2-D shapes
- Count vertices on 2-D shapes
- Draw 2-D shapes
- Lines of symmetry
- Sort 2-D shapes
- Make patterns with 2-D shapes
- Count faces on 3-D shapes
- Count edges on 3-D shapes
- Count vertices on 3-D shapes
- Sort 3-D shapes
- Make patterns with 3-D shapes

NC Objectives

Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.

Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.

Ask and answer questions about totalling and comparing categorical data.

NC Objectives

Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.

Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces.

Identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid.]

Compare and sort common 2-D and 3-D shapes and everyday objects.

Year 2 | Spring Term | Week 8 to 10 - Number: Fractions



Make equal parts Recognise a half Find a half Recognise a quarter Find a quarter Recognise a third Find a third Unit fractions Non-unit fractions Equivalence of $\frac{1}{2}$ and $\frac{2}{4}$ Find three quarters Count in fractions

Year 2 | Spring Term | Week 11 - Measurement: Length & Height

Overview Small Steps

- Measure length (cm)
- Measure length (m)
- Compare lengths
- Order lengths
- Four operations with lengths

NC Objectives

NC Objectives

Recognise, find, name and write fractions $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length,

shape, set of objects or quantity.

 $\frac{1}{2}$ of 6 = 3 and recognise the

equivalence of $\frac{2}{4}$ and $\frac{1}{2}$

Write simple fractions for example,

Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels.

Compare and order lengths, mass, volume/capacity and record the results using >, < and =.

Termly Planning - Summer

Year 2 | Summer Term | Week 1 to 3 - Geometry: Position & Direction



Overview Small Steps

- Describing movementDescribing turns
- Describing movement and turns
- Making patterns with shapes

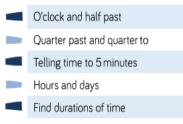
NC Objectives

Use mathematical vocabulary to describe position, direction and movement including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).

Order and arrange combinations of mathematical objects in patterns and sequences.

Year 2 | Summer Term | Week 6 to 7 - Measurement: Time

Overview Small Steps



Compare durations of time

NC Objectives

Tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times. Know the number of minutes in an hour and the number of hours in a day.

Compare and sequence intervals of time.

Year 2 | Summer Term | Week 8 to 10 - Measurement: Mass, Capacity & Temperature





NC Objectives

Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels

Compare and order lengths, mass, volume/capacity and record the results using >, < and =