

Year 1/2 What is Special? Autumn Term 2016/17

Year 1 Objectives

Year 2 Objectives

Mathematics

Counting

- To count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number.
- To 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.

Number and Place Value

- To count in steps of 2, 3, and 5 from 0, and count in tens from any number, forward or backward.
- To recognise the place value of each digit in a two-digit number (tens, ones).
- To identify, represent and estimate numbers using different representations, including the number line.
- To compare and order numbers from 0 up to 100; use $<$, $>$ and $=$ signs.
- To read and write numbers to at least 100 in numerals and in words.
- To use place value and number facts to solve problems.

Addition

- To read and write numbers from 1 to 20 in numerals and words.
- When given a number, identify one more and one less.
- To read, write and interpret mathematical statements involving addition (+), subtraction (−) and equals (=) signs.
- To add and subtract one-digit and two-digit numbers to 20, including zero.
- To solve simple one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems.
- To represent and use number bonds and related subtraction facts within 20.
- To add and subtract one-digit and two-digit numbers to 20 ($9 + 9$, $18 - 9$), including zero.
- To 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.
- To recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.
- To add and subtract 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.
- To show that addition can be done in any order (commutative) and subtraction cannot.
- To recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.

Subtraction

- To read, write and interpret mathematical statements involving addition (+), subtraction (−) and equals (=) signs.
- To add and subtract one-digit and two-digit numbers to 20, including zero.
- To solve simple one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems.
- To represent and use number bonds and related subtraction facts within 20.
- To add and subtract one-digit and two-digit numbers to 20 ($9 + 9$, $18 - 9$), including zero.
- To 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.
- To recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.
- To add and subtract using concrete objects, pictorial representations, and mentally, including: a two-digit number

Science

This term, the children will be learning about humans.

- Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.
- Notice that animals, including humans, have offspring which grow into adults.
- Find out about and describe the basic needs of animals, including humans for survival (water, food and air).
- Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.

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and ones; a 2-digit number and tens; two two-digit numbers; adding three one-digit numbers.

- To recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.

Multiplication and Division

- To recall and use multiplication and division facts for the 2,5 and 10 multiplication tables, including recognising odd and even numbers.
- To calculate mathematical statements for multiplication and division within the multiplication tables and write them using multiplication, division and equals signs.
- To recognise and use the inverse relationship between multiplication and division in calculations.
- To show that multiplication of two numbers can be done in any order (commutative) and division for one number by another cannot.
- To solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts.

Geometry

- To recognise and name common 2D and 3D shapes, including:
2D shapes (rectangles (including squares), circles and triangles)
3D shapes (cuboids (including cubes), pyramids and spheres).
- To identify and describe the properties of 2D shapes, including the number of sides and symmetry in a vertical line.
- To identify and describe the properties of 3D shapes including the number of edges, vertices and faces.
- To identify 2D shapes on the surface of 3D shapes, for example circle on a cylinder and a triangle on a pyramid.
- To compare and sort common 2D and 3D shapes and everyday objects.

Measures

- To choose and use appropriate standard units to estimate and measure length/ height in any direction; mass; temperature; volume and capacity to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels.
- To compare and order lengths, mass, volume/capacity and record the results using
- >, < and =.
- To recognise and use the symbols for pounds and pence; combine amounts to make a particular value
- To find different combinations of coins that equal the same amounts of money
- To solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change