Maths Knowledge Organiser for Year 2

Term: Autumn Term

Key vocabulary:		
Ones	Subtraction	Fact families
Tens	More than	+, - and =
Hundreds	Less than	2D shapes/3D shapes
Digit	Counting on	Faces
Number	Counting back	Edges
Column	Compare	Vertices
Place Value	Order	Flat/Curved
Addition	Add/Subtract	Base 10

Curriculum Objectives

Place Value

- Consolidate understanding of numbers to 20, identifying the place value of each digit
- Read and write numbers to at least 100 in numerals and in words.
- Count in 10s to 100 and be able to place these numbers on a number line
- 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, forward and backward.

Addition and Subtraction

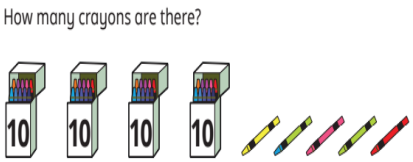
- Identify fact families to 20 (number pairs that make numbers up to 20)
- Identify fact families to 100
- Add and Subtract 1 from/to a number to 100
- Identify 10 more/10 less than a number to 100
- Add two 2-digit numbers
- Subtract two 2-digit numbers
- Identify missing numbers in number sentences. E.g. 10 + 6 = ___ + 7

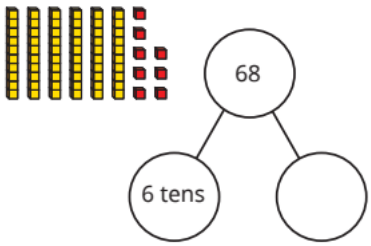
Geometry - Properties of Shape

- To identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.
- To identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces
- To identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid].
- To compare and sort common 2-D and 3-D shapes and everyday objects.

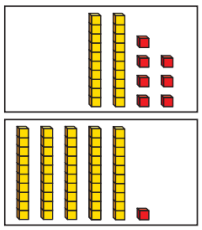
Examples

Place Value:



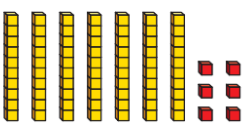


Addition and Subtraction:



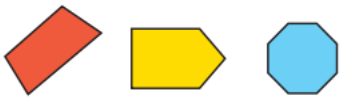
Here are two numbers in base 10. What is the total number?

The base 10 shows 76



- Subtract 4 ones.
- Now subtract 2 tens.
- What is 76 – 24?

Geometry – 2D Shape



How many sides does each shape have?
How many vertices (corners) does each shape have?

Geometry – 3D Shape

Here are some 3-D shapes.

- What is the name of each shape?
- How many edges does each shape have?
- How many faces does each shape have?
- How many vertices does each shape have?

For more information, please see the Calculation Policy on the school website