The Piggott School: Charvil Primary

'Go and do Likewise' Luke 10:25, -37 The Parable of the Good Samaritan
We live with love and compassion, seeking help in times of need

Curriculum Map: Maths Year 2

	Autumn	Spring	Summer
Content Declarative Knowledge 'I know'	**KIRFS** *Know number bonds to 20 *Know the multiplication and division facts for the 2 times table **Main Content** 1. Place Value 2. Addition and Subtraction 3. Shape	**KIRFS** *Know doubles and halves of numbers to 20 *Know the multiplication and division facts for 10 times table **Main Content** 1. Money 2. Multiplication and Division 3. Length and Height 4. Mass, capacity and temperature	**KIRFS** *Tell the time (nearest 5 minutes) *Know the multiplication and division facts fo the 5 times table **Main Content** 1. Fractions 2. Time 3. Statistics 4. Position and Direction
Skills Procedural Knowledge 'I know how to'	****For mapping of skills by unit please see whole school national curriculum/procedural knowledge mapping overview here**** **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 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 in words *use place value and number facts to solve problems **Addition and Subtraction** *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 *recall and use addition and subtraction facts to 20 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 addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot

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

Multiplication and Division

*recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers

*calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs

*show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot

*solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts

Fractions, decimals and percentages

*recognise, find, name and write fractions 1/3, 1/4, 2/4 and 3/4 of a length, shape, set of objects or quantity

*write simple fractions for example, 1/2 of 6 = 3 and recognise the equivalence of 2/4 and 1/2

Measurement

*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 =

*recognise and use symbols for 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

*compare and sequence intervals of time

*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.

Geometry

*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

*order and arrange combinations of mathematical objects in patterns and sequences

*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)

	Statistics *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
Vocabulary	**Place Value and Number** Numbers to one hundred , Hundreds, Partition, recombine, Hundred more/less **Fractions, decimals and percentages** Three quarters, one third, a third, Equivalence, equivalent **Measurement** Quarter past/to, m/km, g/kg, ml/l, Temperature (degrees) **Geometry** Size, Bigger, larger, smaller, Symmetrical, line of symmetry, Fold, Match, Mirror line, reflection, Pattern, repeating pattern, Rotation, Clockwise, anticlockwise, Straight line, Ninety degree turn, right angle **Statistics** Count, tally, sort, Vote, Graph, block graph, pictogram,, Represent, Group, set, list, table, Label, title, Most popular, most common, least popular, least common **General/problem solving** Predict, Describe the pattern, describe the rule, Find, find all, find different, Investigate
Key Questions	Key questions and sentence stems planned for individual small steps of teaching by White Rose Maths scheme
Assessment	Teacher assessment on Insight every term which is triangulated by the use of PUMA paper for Year 2 twice annually and optional KS1 papers in the Summer term Peer and self-assessment opportunities Option to use White Rose End of Block assessments at teacher's discretion
Cross Curricular Links/Character Education	Social skills developed through verbal reasoning and oracy throughout. Spiritual development developed through engaging children with in depth thinking and problem solving.

Geography – position and direction – compass direction DT – measuring building trebuchets	Geography – seasonal changes – temperature DT – measuring baking hot cross buns Computing – data and information - pictograms	DT – measuring for making a car (wheels and axles)