	NC OBJECTIVES	SEQUENCE OF LEARNING	KNOWLEDGE ORGANISER – facts and vocabulary
Y E A R 2 S P R I N G T E R M	**1 week – Growth Mindset** ● Evaluate individual ways of learning ● Develop perseverance and resilience.	1. Manual dexterity 2. Understanding rules / constraints 3 Thinking creatively	Growth Minset, fixed, flexible, creatively, cognition, muscle memory
	2 weeks - Division ● 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 (×), division (÷) 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 is commutative but division is not.	Counting in different multiples taught throughout the block as lesson starters with links between different multiples being highlighted. Order: 10s, 5s, 2s, 3s 1. Make equal groups - sharing 2. Make equal groups - grouping 3. introduce ÷ symbol 4. Divide by 2 including reasoning and problem solving 5. Odd and Even numbers 6. Divide by 5 including reasoning and problem solving 7. Divide by 10 including reasoning and problem solving	Equal groups, sharing odd, even, groups of, divide by, multiple of
	2 weeks - 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	1. Make tally charts 2. Draw pictograms (1:1) 3. Interpret pictograms (1:1) 4. Draw pictograms (2, 5 and 10) 5. Interpret pictograms (2, 5 and 10) 6. Block diagrams	Tally, pictogram, vertical, horizontal, graph, chart, diagram, interpret, data, represent, more than, less than, popular, favourite, least, most, statement, symbol
	2 weeks - Geometry ● Identify and describe the properties of 2D shape including number of sides and lines of symmetry. ● Identify and describe the properties of 3D shape including number of edges, vertices and faces. ● Identify 2-D shapes on the surface of 3D shapes. ● Compare and sort common 2D and 3D shapes and everyday objects.	1. recognise 2D and 3D shapes 2. Count sides on 2D shapes 3. count vertices on 2D shapes 4. Draw 2D shapes 5. Lines of symmetry 6. Sort 2D shapes 7. Make patterns with 2D shapes 8. count vertices on 3D shapes 9. Sort 3D shapes 10 Make patterns with 3D shapes	Names of common 2D and 3D shapes Dimensions, vertex, vertices, pattern, order, position, size, vertical, horizontal, symmetry, face, edge
	2 weeks- Fractions ● Recognise, find, name and write fractions ½, 1/3, ¼, 2/4, ¾ of a length, shape, set of objects or quantity. ● Write simple fractions for example: ½ of 6 = 3 and recognise the equivalence of 2/4 and ½	1. Make equal parts 2. Recognise a half and find a half 3. Recognise a quarter and find a quarter 4. Recognise a third and find a third 5. Unit fractions 6. Non-unit fractions 7. Equivalence of ½ and 2/4 8. Find three quarters. 9. Count in fractions.	Whole, part, equal, half, halves, quarter, thirds, equivalent, numerator, denominator, split
	2 weeks- Measurement – Mass and Capacity ● Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (l/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 =	1. Measure length (cm) 2. Measure length (m) 3. Compare lengths 4. Order lengths 5. Four operations with lengths	Length, orientation, metres, centimetres, longer, shorter, taller, estimate,

	1 week- Recap and Review ● Multiplication & division ● Shape and measurement ● statistics	1 Evaluate 2. Review and learn as necessary	Link to Growth Mindset at beginning of Term