Stone Hill School	
Long Term Curriculum Plan	
Mathematics Y1 - 4	

Subject Intent

Our Mathematics curriculum aims to ensure that all pupils become confident mathematicians, who can solve real life problems and reach their full potential in qualifications work. The curriculum is based on the Maths Mastery principles. Pupils are encouraged to build their fluency by securing their knowledge of mathematical facts and models, and then use this understanding to solve a wide range of problems. Pupils in Years 1 – 4 secure their understanding of number and place value up to 20. They participate in a range of short, practical activities that develop their play and social skills alongside key mathematical concepts. Assessment at this level is largely collected from practical activities and is moderated periodically in whole school meetings and through subject leader work scrutiny. Mathematical skills are further embedded through the foundation subject curriculums, and the leaders of these subjects contribute to the assessment of pupils in areas such as measures, money and statistics. We also plan multiple opportunities for our pupils to use mathematics in real world situations through, for example, role play, enterprise projects and visits out of school.

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Year 1-4 Group	4 Week/s	Topic/Theme	Learning Outcomes Knowledge and Skills	Links to:
		Key vocabulary including Tier 3	To know, to use, to apply	Links
Term		subject specific words		Literacy and Num SMSC and British Gatsby Benchm
				Learning Behaviours/Sk
Autumn	1-3	Introducing Numicon Shapes Number, digit, count, more, less, forwards, backwards, Numicon, odd, even, sequence, pattern.	 Introducing Numicon Shapes. Introducing number rods and ordering Numicon Shapes. Introducing Numicon Shapes and patterns, and ordering number rod trays. 	Literacy Use new vocabulary, make marks on materials, speak coherer
	4-5	Numicon and Numerals Order, number, numeral, digit, sequence, compare, odd, even, missing, value	 RPS – missing number opportunities Linking Numicon Shapes with numbers and numerals, and comparing number rods. Securing links between Numerals, Numicon Shapes and patterns, and ordering number rods. 	Literacy Take part in a discussion, make marks on materials
	6-7	Teen numbers Group, order, number, numeral, value, equal, compare, pattern	 RPS – missing number opportunities Finding how many by grouping, and teen numbers. Using Numicon Shape patterns and teen numbers. RPS – odd one out opportunities Prior Level: 	Literacy Make marks on materials, use new vocabulary
			 demonstrate an understanding of the concept of 1:1 correspondence. demonstrate an understanding of the concept of transaction (e.g. by exchanging a coin for an item, or one item for another, during a role-play activity) Enrichment Activities Ideas: Maths Trees, counting objects for a reason not just for the sake of counting e.g. coats on a peg, make an interactive number book. Key Questions: 	

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Skills Builder

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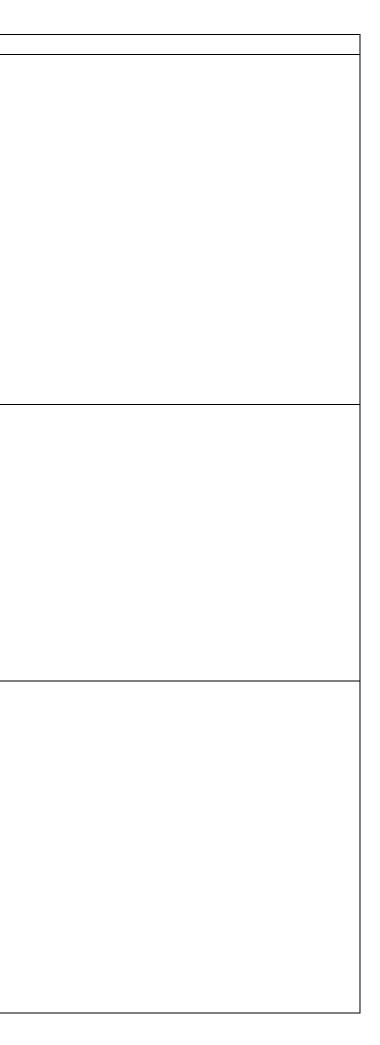
			Can you find? Can you point to?	
	8-12	Exploring shape and colour Circle, triangle, square, rectangle, heart, star, oval, round, curved, straight, corner, side.	 Naming common 2D shapes. Sorting objects by shape, colour and size. Making sequences with colours and shapes. RPS – odd one out opportunities Prior Level: identify the big or small object from a selection of two. copy and continue simple patterns using real-life materials (e.g. apple, orange, apple, orange, etc.). Show an interest in 2D shapes. Enrichment Activities Ideas: Shape hunt, Shape weaving with sticks and natural resources, shape printing Key Questions: Where is? Which one? 	Literacy Use new vocabulary SMSC and British values Participate positively in art, enjoy learning about the world ar Careers Describe what you are like, what you are good at and what yo Gatsby Benchmark 4
Spring	1-3	Adding and taking away Add, total, combine, equal to, same as, subtract, take away, plus, more, less	 Adding with Numicon shapes. Adding one more. Taking away with Numicon Shapes (prior level - taking away one). Subtracting one and adding one with number rods. RPS – true/false opportunities Enrichment Activities Ideas: Under the flower pot (find, count and add), using a pair of dice. Key Questions: Can you? What is? 	Literacy Use new vocabulary
	4-6	Halving and sharing Equal, part, whole, divide, share, half, halves	 Representing halves in a variety of contexts. Sharing equally. Prior Level: Recognise when two quantities are equal. Recognise when two groups are unequal. RPS – true/false opportunities 	Literacy Use new vocabulary SMSC and British Values Socialise with other pupils and other people, cooperate with them. (Mutual respect)

l around them. (Individual liberty)

you enjoy doing

th others, enjoy learning about the world around

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	7-8	Understanding parts and wholes Part, whole, partition, combine, cherry model, equal, add, subtract, split. add, subtract, split. Exploring measures Measuring cylinder, jug, scales, metre stick, ruler, weight, bigger, smaller, heavier, lighter.	 Adding - parts and wholes. Subtracting - parts and wholes. RPS – visualisation opportunities Prior Level: distinguish between 'one' and 'lots', when shown an example of a single object and a group of objects Enrichment Activities Ideas: Sharing foods, looking at flowers and splitting them into parts, breaking objects. Key Questions: How can? Show me Exploring capacity, mass and length. Comparing measures (bigger, smaller, heavier, lighter). RPS – visualisation opportunities 	Literacy Use new vocabulary
		bigger, smaller, neavier, lighter.	Enrichment Activities Ideas: water play, throwing things e.g. wellies, the longest squirt, biggest bubble. Key Questions: Can you select? Can you find?	Explain how to get what you want
Summer	1-4	Exploring number lines Difference, less, more, order, count, add, subtract, total, equal, number line.	 Connecting adding, subtracting and number lines. Subtracting - finding the difference. How many more, how many fewer, how much less. RPS – word problem opportunities Prior Level: demonstrate an understanding that the last number counted represents the total number of the count. use real-life materials (e.g. apples or crayons) to add and subtract 1 from a group of objects and indicate how many are now present 	Literacy Use new vocabulary



		 Enrichment Activities Ideas: Maths Trees, counting objects for a reason not just for the sake of counting e.g. coats on a peg, make an interactive number book. Key Questions: Can you find? Can you point to? 	
5-7	Halving and doubling Share, halve, double, equal, parts, whole. Share, halve, double, equal, parts, whole. Sequences Repeat, continue, circle, triangle, square, pattern, sequence Sequences	 Halving and doubling small numbers in a range of contexts. RPS – word problem opportunities Enrichment Activities Ideas: doubling using natural objects, cutters and breaking in half, stacking and knocking items down, scavenger hunt. Key Questions: Where is? What happened? Exploring adding and subtracting within sequences. Describing and extending patterns and sequences. RPS – using charts and diagrams opportunities Enrichment Activities Ideas: find and use natural objects to make a pattern, foot and hand print patterns, sandpit patterns. Key Questions: What come next? Find the next? 	SMSC and British Value Enjoy learning about the world around them, cooperate with Uiteracy Take part in a discussion SMSC and British Values Participate positively in art, Enjoy learning about the world a world) (Mutual respect and Tolerance)

Intended impact:

Pupils will develop their fluency and reasoning skills so they can fully access the National Curriculum objectives covered in later years. They will be able to work cooperatively with other pupils in practical activities and will understand how to use a range of models and images appropriately. In addition, the focus on play-based learning and group activities will have helped them to develop as team workers, effective participators and self-managers.

vith others. (Mutual respect and Tolerance)

around them (geometric patterns around the