

Year 5 Maths Curriculum Medium Term Plan (Learning Objectives)- Autumn Term 2017

	Whole School Theme: <i>Stories</i> / Year group Theme: <i>Space- The Final Frontier?</i>	
Values	Kindness/integrity	
Learning Skills	-Curiosity -Communication -Teamwork -Determination -Confidence -Independence -Focus -Aspiration	
Curriculum Drivers	Knowledge of the world- Who am I? What is my locality? How do I fit in with the wider world? Possibilities- How can I 'Be the Best I can Be?' How can I make the most of my opportunities? Community- How can I take responsibility for my school and local community? How does my community compare with others? How can I help others?	
Blocked Learning	<p><u>Number and Place Value</u></p> <ul style="list-style-type: none"> • read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit • count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000 • interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero • round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000 and 100,000 • solve number problems that involve all of the above. • read Roman numerals to 1000 (M) and recognise years in Roman numerals <p>(3 weeks)</p> <p><u>Addition and Subtraction</u></p> <ul style="list-style-type: none"> • add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) • add and subtract numbers mentally with increasingly large numbers. • use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy • solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why <p>(3 weeks)</p> <p>Plus assessment week</p>	<p><u>Multiplication and Division</u></p> <ol style="list-style-type: none"> 1. identify multiples and factors, including finding all factor pairs of a number, and common factors of 2 numbers 2. know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers 3. establish whether a number up to 100 is prime and recall prime numbers up to 19 4. multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers 5. multiply and divide numbers mentally, drawing upon known facts 6. divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context 7. multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 8. recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³) 9. solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes 10. solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign 11. solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates (4 weeks) <p><u>Measurement</u></p> <ul style="list-style-type: none"> • convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) <p>(2 weeks)</p>

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Ongoing	<u>Addition and Subtraction</u> <ul style="list-style-type: none">• add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)• add and subtract numbers mentally with increasingly large numbers• use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy• solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	<u>Number and Place Value</u> <ul style="list-style-type: none">• interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero
	<u>Number and Place Value</u> <ul style="list-style-type: none">• read, write order and compare numbers to at least 1,000,000 and determine the value of each digit• count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000• round any number up to 1,000,000 to the nearest 10, 100, 1,000, 10,000, 1000,000• solve number problems and practical problems that involve all of the above	<u>Addition and Subtraction</u> <ul style="list-style-type: none">• add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)• add and subtract numbers mentally with increasingly large numbers.• use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy• solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why