

Subject	Year	Term																												
Maths	7	1																												
Topics																														
Place value, ordering and rounding, Four operations, Averages and Range, Sequences, Algebraic notation and substitution, Expressions and equations.																														
Content (Intent)																														
Prior Learning (Topic) KS2 (Primary National Curriculum)																														
- Place value including Decimals - Mastery of four basic operations (+,-,x,÷) - Ordering and rounding - Averages including Mean, mode median	- Sequences - Averages including Mean, mode median - Algebra (Expressions and Equations)																													
Future Learning (Topic) Graphing Data, Fractions, decimals and percentages, directed number, perimeter ad area, speed, distance, time, Properties of number, add and subtract fractions, angles and polygons																														
What Knowledge and Skills will be taught (Implementation)		How will your understanding be assessed & recorded (Impact)																												
- Ordering and comparing integers and decimals by understanding place value - Adding, subtracting, multiplying and dividing integers and decimals - Order of operations - Analysing sets of numbers (averages, range) - Solve problems with averages and range - Round to powers of 10 and significant figures		<u>Ongoing Assessment</u> - Q&A in plenary - Mini-whiteboards - Self and Peer assessment - One online homework per week - End of unit tests																												
- Describe sequences - Find missing terms in sequences - Finding outputs given and input and vice-versa with knowledge of inverse operations - Generate function machines from an expression - Substitution of values - Graphical representation of functions - Understand Equality and Equivalence - Solve equations - Simplify Algebraic Expressions		<u>Formal Assessment</u> October resetting test																												
How can parents help at home?																														
Encourage use of Sparxmaths Practise times tables on a regular basis. Review previously taught topics regularly.																														
Helpful further reading/discussion (including Reading and Vocabulary Lists)																														
Reading Direct to the following websites ; Sparxmaths.com www.mathsgenie.co.uk	Vocabulary Lists <table><tr><td>Place value</td><td>Median</td><td>Division</td><td>Function-machine</td></tr><tr><td>Mode</td><td>Mean</td><td>Solving Expressions</td><td></td></tr><tr><td>Integer</td><td>Power</td><td>Input</td><td>Linear</td></tr><tr><td>Decimal</td><td>Fraction</td><td>Sequence</td><td>Substitute</td></tr><tr><td>Rounding</td><td>Decimal</td><td>Pie Charts</td><td>Graphs</td></tr><tr><td>Range</td><td>Percentage</td><td>Operations</td><td>Output</td></tr><tr><td></td><td></td><td>Inverse</td><td></td></tr></table>		Place value	Median	Division	Function-machine	Mode	Mean	Solving Expressions		Integer	Power	Input	Linear	Decimal	Fraction	Sequence	Substitute	Rounding	Decimal	Pie Charts	Graphs	Range	Percentage	Operations	Output			Inverse	
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