

Subject		Year	Term
Maths		7	2
Topics			
Graphing data, fractions, percentages and decimals, directed number, fractions and percentages of amount, perimeter and area			
Content (Intent)			
Prior Learning (Topic)	Number, Measures, Algebra, Sequences, Function Machines, Algebraic Notation, Equality and Equivalence		
- Graphing data - Fractions, decimals and percentages	- Directed number - Fractions and percentages of amounts - Perimeter and area		
Future Learning (Topic)	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)
- Solve problems with bar charts, dual bar charts, composite bar charts and frequency trees - Co-ordinates in the first quadrant - Scatter graphs, correlation and lines of best fit - Time series graphs - Non linear relationships - Converting fractions decimals and percentages - Fractions as diagrams and on a number line - Fractions, decimals and percentages greater than 1(E)			<u>Ongoing Assessment</u> - Q&A in plenary - Mini-whiteboards - Self and Peer assessment - One online homework per week - End of unit tests
- Understand, use and order directed numbers - Algebraic expressions with directed numbers - Order of operations with directed numbers - Use a calculator with directed number - Roots of positive numbers - Fractions of amount, use fraction to find the whole - Percentage of amount - Percentage increase/decrease - Solve problems with fractions/percentages greater than 1(E)			<u>Formal Assessment</u> January Assessment point 1
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 Addition Subtraction Division Multiplication Integer Fraction Decimal Percentage Mixed Number Directed Number Equivalence Metric Units Order of operations Equations Roots Factors Multiples Area Perimeter Mean Bar Charts Line Charts Frequency Trees Standard Form	