



Subject	Year	Term
Maths	8	2
Topic		
Algebraic Techniques and Developing Number Sense		
Content (Intent)		
Prior Learning (Topic)	Proportional Reasoning and Representations	
- Decimal Calculations - Statistics - Transformations and scales - Equations - Powers and roots - Sequences		
Future Learning (Topic)	Developing Geometry and Reasoning with Data	
What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)	
- Addition, subtraction, multiplication and division of decimals - Correct order of operations - Use a calculator and interpret the display - Organise data into a frequency diagram - Interpret statistical diagrams - Estimate averages from grouped tables - Translate, reflect, rotate and enlarge shapes - Understand scales on maps and in drawing	<u>Ongoing Assessment</u> - Q&A in plenary - Mini-whiteboards - Self and Peer assessment - One online homework per week - End of unit tests	
- Solve one and two step equations - Solve equations with brackets - Solve equations with unknown on both side - Solve equations using trial and improvement - Find square and cube roots, recall prime factorisation - Use rules of indices, simplify surds and work with fractional indices - Understand and use standard form - Use rules to generate sequences and find the nth term		
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	Vocabulary Lists	Enlarge
Direct to the following websites;	Reflect	Integer
	Difference	Solve
Sparxmaths.com	Rotate	Outcome
	Sum	Variable
www.mathsgenie.co.uk	Translate	Ratio
	Product	Origin