



Subject	Year	Term
Mathematics	9	3
Topic		
Proportion and representations		
Content (Intent)		
Prior Learning (Topic) Algebra, Probability and Proportion		
- Enlargement and similarity - Solving ratio & proportion problems - Rates - Probability - Algebraic Representation		
Future Learning (Topic) Trigonometry, proportion and algebra		
What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)	
- Enlargement and Similarity - Enlarge using fractional and negative sf (E) - Solve problems in similar triangles(E) - Explore ratios in right angled triangles – trigonometry - Solve problems with direct and inverse proportion - Graphs of inverse relationships (E) - Solve best buy problems - Solve problems involving ratio and algebra	<u>Ongoing Assessment</u> - Q&A in plenary - Mini-whiteboards - Self and Peer assessment - One online homework per week - End of unit tests	
- Speed, distance and time, problems and graphs - Density, mass and volume - Convert compound units - Relative frequency - Expected outcomes, independent events and tree diagrams - Draw and interpret quadratic, reciprocal graphs - Investigate graphs of simultaneous equations (E) - Represent inequalities - Re-visit key areas based on outcomes of assessments (Set specific) - Functional maths and Problem solving	<u>Formal Assessment</u> June – Assessment point 2	
How can parents help at home?		
Encourage use of Sparxmaths.com [or MathsGenie] 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 List Object, image, scale factor, integer, positive enlargement, relationship, ratio, multiplier, constant, scale factor, speed, distance, time, per, experiment, outcome, biased/unbiased, trial, frequency, relative frequency, quadratic, parabola, curve, vertex, turning point, symmetry	