Bishop Heber High School

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