Quality of Education: *Curriculum is planned and sequenced so that new **knowledge** and **skills** build on what has been taught before and towards its clearly defined end points.*

Ormiston Victory Academy

SUBJECT: Ratio and proportion CURRICULUM PROGRESSION PATHWAYS			CL: Miss Z. Bradshaw and Miss A. Hazell				
Year 7	**Year 8**	**Year 9**	**KS4 Foundation pathway**	**KS4 Higher pathway**	**KS5 (Level 3) – A-level Mathematics/Core Mathematics**	**Further Education and training**	**Careers**
Ratio ● Use scale drawings ● Use and understand ratio notation ● Simplify 2 or 3 part ratios ● Find equivalent ratios ● Divide a quantity into two parts of a given ratio **Proportion** ● Solve simple problems involving direct proportion ● Use the unitary method to solve simple word problems involving direct proportion ● Use fractions to describe and compare proportions ● Understand and use the relationship between fractions, ratio and proportion ● Use percentages to describe and	**Ratio** ● Solve ratios and proportion problems involving decimals ● Use unit ratios **Proportion** ● Apply direct proportion to graphical representations (straight line graphs) ● Recognise when two things are in direct proportion	**Ratio** **Proportion** ● Write formula and use to solve problems using direct and inverse proportions ● Solve best buy problems ● Solve problems using inverse proportion	**Ratio** ● Use ratios to convert between units ● Compare ratios (a:b, b:c what is a:b:c) ● Understand the link between the unit ratio and the gradient ● Convert between currencies **Proportion**	**Ratio** ● Use ratios to convert between units ● Compare ratios (a:b, b:c what is a:b:c) ● Understand the link between the unit ratio and the gradient ● Convert between currencies **Proportion** ● Write and use equations for direct and inverse proportion using the constant K ● Solve problems involving cubic and square proportionality ● Use and recognise graphs showing direct and indirect proportion	**Ratio** ● Solve vector problems with lengths given in ratios (A-level) ● Solve mechanic problems with pulleys and weighted by unknown masses but with specific ratio (A-level) **Proportion** ● Use graphs and calculation to identify whether sets of data are directly, indirectly proportional ● Identify whether linear models are suitable ● Use logarithms to help model non-linear data	● Natural Sciences ● Agriculture	● Banking ● Finance ● Mortgage Brokers ● Stock Brokers ● Post office ● Engineering ● Farming and land management ● Landscaping ● Cartography

Core knowledge and skills mapped across the curriculum

prepare proportions						

Core knowledge and skills mapped across the curriculum