



Knowledge Rich Curriculum Plan

Year 10 Foundation – Ratio and Proportion



			The Sutton Academy	
Lesson/Learning Sequence	Intended Knowledge: Students will know that	Tiered Vocabulary	Prior Knowledge: In order to know this, students need to already know that	Assessment
To learn how to write and simplify ratio	 Students will know that a ratio describes and represents the relationship between two or more quantities. Students will know how to represent the division of a quantity in the form of a ratio. Students will know how to interpret and express a situation in the form of a ratio. Students will know how to simplify ratios in their simplest form. Students will know how to simplify ratios in the form of 1: n or n: 1. Students will know how to convert fractions into ratios and vice versa. Students will know how to understand and express the multiplicative relationship between two quantities as a ratio or a fraction. 	Ratio - in mathematics, a ratio indicates how many times one number contains another. Simplify – make (something) simpler or easier to do or understand.	Students should already know how to find common factors	
To learn how to share in a ratio	Students will know how to share a quantity into a two-part given ratio. Students will know how to share a quantity into a three-part given ratio. Students will know how to find quantities within a ratio when one part is given Students will know how to find quantities within a ratio when the difference between two parts is given. Students will know how to solve ratio problems with context.	Share – split up between parts	Students need to know how to use the bus stop method	
To learn how to scale up recipes	•Students will know how to scale up recipes. Students will know that to scale up recipes they should find the recipe for one person and then scale up; or they will find the recipe for a common factor of people and then scale up.	Proportion — a part, share, or number considered in comparative relation to a whole Direct Proportion — If two things are directly proportional then if one increases, so does the other, if one decreases, then so does the other	Students will need to know how to multiply and divide	
To learn how to identify the best buy	 Students will know how to find the best buy by either finding the value of one item for each option or finding the value of a common multiple of each item. Students will know how to find the best buy in more complex scenarios where percentage discounts or fractions are also involved 	Value – how much money something is worth	Students will need to know how to find the lowest common multiple of two numbers	
To learn how to convert between different currencies	Students will know how to convert between different currencies.	Currency – a system of money in general use in a particular country. Convert – change/ swap to	Students will need to know how to multiply decimals Students will need to know how to divide decimals	