



## Knowledge Rich Curriculum Plan

Year 8 Core – Ratio and Proportion



			The Sutton Academy	
Lesson Objective	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, simplify and compare ratio	<ul> <li>Students will know how to express a situation in a ratio</li> <li>Students will know how to write a ratio in its simplest form</li> <li>Students will know how to simplify ratios in the form of 1: n or n: 1.</li> <li>Students will know how to convert fractions into ratios and vice versa.</li> <li>Students will know how to compare ratios by converting to fractions.</li> </ul>	Ratio - the quantitative relation between two amounts showing the number of times one value contains or is contained within the other  Simplify — make (something) simpler or easier to do or understand.	•Students will need to know how to find common factors	Mini-Assessment 7
To learn how to share an amount into a ratio	Students will know how to represent a ratio using boxes or bars  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.  Opportunities for challenge:  Students will know how to find quantities within a ratio when the value of one part is given.  Students will know how to find quantities within a ratio when the difference between two parts is given.	Share – split up between parts	Students need to know how to use the bus stop method	Mini-Assessment 7
To learn how to scale up recipes	• Students will know how to scale up simple recipes. For example, take a recipe for two people and make it for four people or take a recipe for 8 people and make it for 2 people etc.	Proportion – a part, share or number considered in comparative relation to a whole Scale up/down – Increase/decrease proportionally	Students will need to know how to multiply and divide	Mini-Assessment 7
To learn how to identify best buys	• 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.	Value – how much money something is worth	Students will need to know how to find the lowest common multiple of two numbers	Mini-Assessment 7
To learn how to convert 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 and divide by decimals	Mini-Assessment 7