Knowledge Rich Curriculum Plan

Year 9 Support – Ratio and Proportion

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	• Students will know how to express a situation in a ratio • Students will know how to write a ratio in its 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 compare ratios by converting to fractions.	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.		• 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