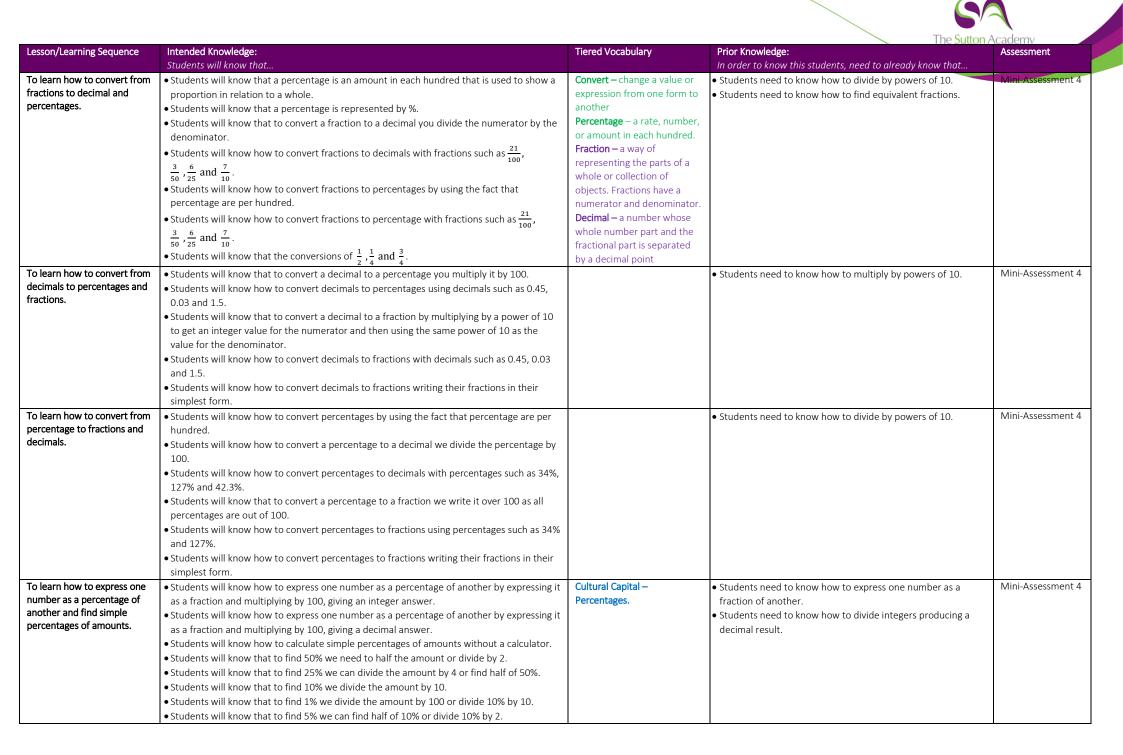




Knowledge Rich Curriculum Plan

Year 8 Core – Percentages







		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
	 Students will know that to find 75% we can add 50% and 25% together. Students will know how to find percentages that are multiples of 10% and 1%. 			
To learn how to calculate percentages of amounts. (without a calculator)	 Students will know how to calculate any percentage of an amount. Students will know that you can find percentages several ways by using a mixture of multiplying, dividing, adding and subtracting the basic percentages (50%, 25%, 10%, 5% and 1%). Students will know how to find the percentage of an amount using real-life problems. 	Percentage – a rate, number, or amount in each hundred.	• Students need to know how to find 50%, 25%, 10%, 5% and 1% of a given amount.	Mini-Assessment 4
To learn how to increase or decrease an amount using percentages.	 Students will know that increasing an amount by a percentage will cause the amount to get bigger. Students will know that decreasing an amount by a percentage will cause the amount to get smaller. Students will know that percentage increase is calculated by finding the percentage of the amount and adding it onto the original amount. Students will know that percentage decrease is calculated by finding the percentage of the amount and subtracting it from the original amount. Opportunity for challenge: Students will know how to increase or decrease an amount using percentages in real-life problems. 	Increase – a rise in the size, amount, or degree of something Decrease – a drop in the size, amount, or degree of something	 Students need to know how to find a percentage of an amount. 	Mini-Assessment 4
To learn how to calculate percentages of amounts using a calculator.	 Students will know how to use a calculator to express one percentage as a percentage of another. Students will know how to use a calculator to convert fractions to percentages and decimals. Students will know how to use a calculator to convert decimals to percentages and fractions. Students will know how to use a calculator to convert percentages to decimals and fractions. Students will know how to find the percentage of an amount using a calculator. Students will know how to increase an amount by a percentage using a calculator. 		 Students need to know how to convert between fractions, decimals and percentages. Students need to know how to increase and decrease an amount using percentages. 	Mini-Assessment 4
To learn how to calculate simple interest.	 Students will know that interest is an amount money that is added or occurred over time. Students will know that value added tax, or VAT, is the tax you have to pay when you buy goods or services. Students will know that the standard rate of VAT in the UK is 20%. Students will know how to calculate VAT. Students will know how to find simple interest by finding the value of the increase, multiplying by the amount of years and adding it to the original amount. Students will know how to calculate simple interest with and without a calculator. Opportunity for challenge: Students will know how to solve problems involving simple interest. 	Interest - a fee paid for borrowing money or other assets or an amount earned by saving money in a bank account that pays it VAT – Value Added Tax – a tax that is applied to the purchase price of certain goods, services and other taxable supplies that are bought and sold within the UK. Standard VAT is 20%.	 Students need to know how to increase amounts using percentages. Students need to know how to use a calculator to find percentages. 	Mini-Assessment 4