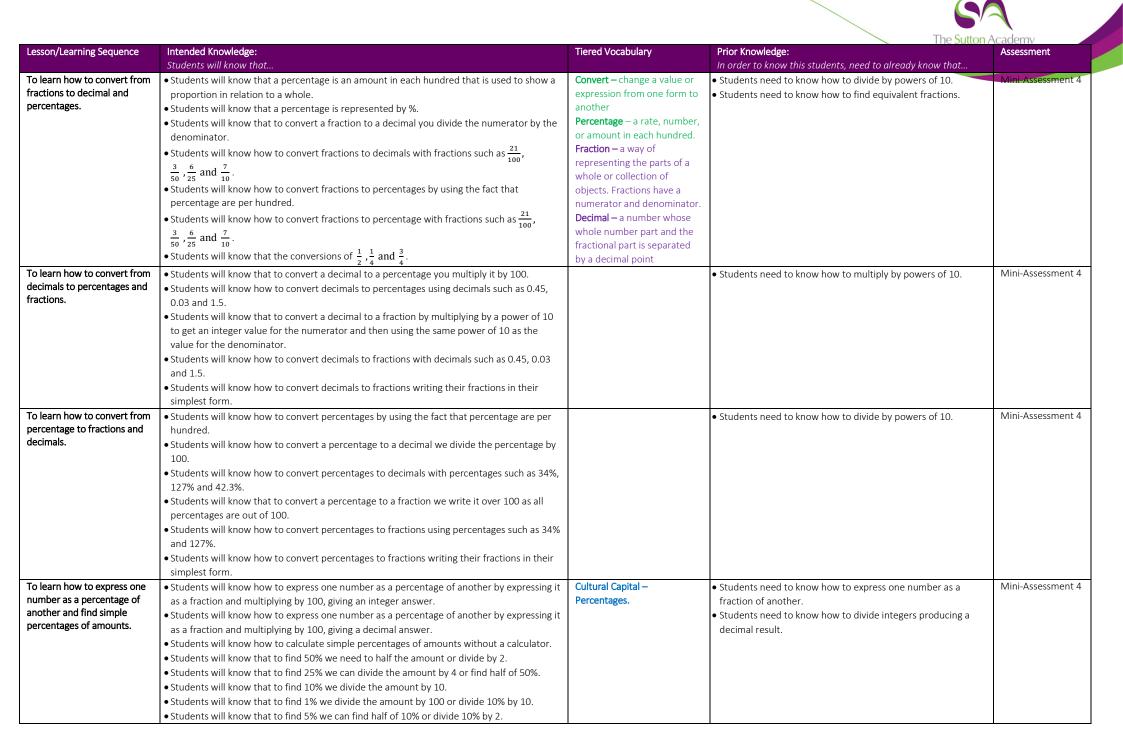




## Knowledge Rich Curriculum Plan

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
	<ul> <li>Students will know that to find 75% we can add 50% and 25% together.</li> <li>Students will know how to find percentages that are multiples of 10% and 1%.</li> </ul>			
To learn how to calculate percentages of amounts. (without a calculator)	<ul> <li>Students will know how to calculate any percentage of an amount.</li> <li>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%).</li> <li>Students will know how to find the percentage of an amount using real-life problems.</li> </ul>	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.	<ul> <li>Students will know that increasing an amount by a percentage will cause the amount to get bigger.</li> <li>Students will know that decreasing an amount by a percentage will cause the amount to get smaller.</li> <li>Students will know that percentage increase is calculated by finding the percentage of the amount and adding it onto the original amount.</li> <li>Students will know that percentage decrease is calculated by finding the percentage of the amount and subtracting it from the original amount.</li> <li>Opportunity for challenge:</li> <li>Students will know how to increase or decrease an amount using percentages in real-life problems.</li> </ul>	Increase – a rise in the size, amount, or degree of something Decrease – a drop in the size, amount, or degree of something	<ul> <li>Students need to know how to find a percentage of an amount.</li> </ul>	Mini-Assessment 4
To learn how to calculate percentages of amounts using a calculator.	<ul> <li>Students will know how to use a calculator to express one percentage as a percentage of another.</li> <li>Students will know how to use a calculator to convert fractions to percentages and decimals.</li> <li>Students will know how to use a calculator to convert decimals to percentages and fractions.</li> <li>Students will know how to use a calculator to convert percentages to decimals and fractions.</li> <li>Students will know how to find the percentage of an amount using a calculator.</li> <li>Students will know how to increase an amount by a percentage using a calculator.</li> </ul>		<ul> <li>Students need to know how to convert between fractions, decimals and percentages.</li> <li>Students need to know how to increase and decrease an amount using percentages.</li> </ul>	Mini-Assessment 4
To learn how to calculate simple interest.	<ul> <li>Students will know that interest is an amount money that is added or occurred over time.</li> <li>Students will know that value added tax, or VAT, is the tax you have to pay when you buy goods or services.</li> <li>Students will know that the standard rate of VAT in the UK is 20%.</li> <li>Students will know how to calculate VAT.</li> <li>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.</li> <li>Students will know how to calculate simple interest with and without a calculator.</li> <li>Opportunity for challenge:</li> <li>Students will know how to solve problems involving simple interest.</li> </ul>	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%.	<ul> <li>Students need to know how to increase amounts using percentages.</li> <li>Students need to know how to use a calculator to find percentages.</li> </ul>	Mini-Assessment 4