



Knowledge Rich Curriculum Plan

Year 7 Support – 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
To learn how to convert from fractions to decimals and percentages.	 Students will know that a percentage is an amount in each hundred that is used to show a proportion in relation to a whole. Students will know that a percentage is represented by %. Students will know that to convert a fraction to a decimal you divide the numerator by the denominator. Students will know how to convert fractions to decimals with fractions such as ²¹/₁₀₀ and ³/₁₀. Students will know how to convert fractions to percentages by using the fact that percentage are per hundred. Students will know how to convert fractions to percentage with fractions such as ²¹/₁₀₀ and ³/₁₀₀. Students will know that the conversions of ¹/₂, ¹/₄ and ³/₄. 	Convert – change a value or expression from one form to another Percentage – a rate, number, or amount in each hundred. Fraction – a way of representing the parts of a whole or collection of objects. Fractions have a numerator and denominator. Decimal – a number whose whole number part and the fractional part is separated by a decimal point	Students need to know how to find equivalent fractions Students need to know how to use the bus stop method	Mini-Assessment 4
To learn how to convert from decimals to percentages and fractions.	 Students will know that to convert a decimal to a percentage you multiply it by 100. Students will know how to convert decimals to percentages using decimals such as 0.45 and 0.03. Students will know that to convert a decimal to a fraction by multiplying by a power of 10 to get an integer value for the numerator and then using the same power of 10 as the value for the denominator. Students will know how to convert decimals to fractions with decimals such as 0.45 and 0.03. Opportunity for challenge: Students will know how to convert decimals to fractions writing their fractions in their simplest form. 		Students need to know how to multiply by powers of 10.	Mini-Assessment 4
To learn how to convert from percentage to fractions and decimals.	 Students will know how to convert percentages by using the fact that percentage are per hundred. Students will know how to convert a percentage to a decimal we divide the percentage by 100. Students will know how to convert percentages to decimals with percentages such as 34% and 7%. Students will know that to convert a percentage to a fraction we write it over 100 as all percentages are out of 100. Students will know how to convert percentages to fractions using percentages such as 34% and 7%. Opportunity for challenge: Students will know how to convert percentages to fractions writing their fractions in their simplest form. 		Students need to know how to simplify fractions	Mini-Assessment 4
To learn how to calculate basic percentages of amounts. (without a calculator)	Students will know how to calculate simple percentages of amounts without a calculator. Students will know that to find 50% we need to half the amount or divide by 2. Students will know that to find 25% we can divide the amount by 4 or find half of 50%. Students will know that to find 10% we divide the amount by 10. Students will know that to find 1% we divide the amount by 100 or divide 10% by 10. Students will know that to find 5% we can find half of 10% or divide 10% by 2. Students will know that to find 75% we can add 50% and 25% together.		Students need to know how to use the bus stop method	Mini-Assessment 4



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 calculate percentages of amounts. (without a calculator)	 Students will know how to calculate any percentage of an amount, without a calculator. 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 need to know how to find 50%, 25%, 10%, 5% and 1% of a given amount.	Mini-Assessment 4
To learn how to calculate percentages of amounts using a calculator.	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 need to know how to find a percentage of an amount.	Mini-Assessment 4