


Subject	Year	Month		
Mathematics	8	December		
Topic:				
CONVERTING FDP				5 LESSONS
Content (Intent)				
Prior Learning Y7 Nov <ul style="list-style-type: none"> - Ordering a mixture of Fractions, decimals, percentages Y7 Jan <ul style="list-style-type: none"> - Write one quantity as a fraction of another - Fractions and percentages Y7 May <ul style="list-style-type: none"> - Calculating with fractions - Convert between mixed numbers and top-heavy fractions Y8 Nov <ul style="list-style-type: none"> - Some basic FDP equivalents - Use FDP to represent a proportion or probability. 		Future Learning Y8 Jan <ul style="list-style-type: none"> - Connections between FDP and ratio Y8 March <ul style="list-style-type: none"> - Multiplier method for percentage Y10 <ul style="list-style-type: none"> - FDP at GCSE 		
Objectives <ul style="list-style-type: none"> • Recall some decimal and fraction equivalents (e.g. tenths, fifths, eighths, thirds, quarters, etc) • Write a terminating decimal as a fraction • Write a fraction in its lowest terms by cancelling common factors • Use a calculator to change any fraction to a decimal • Identify if a fraction is terminating or recurring (using the product of primes of the denominator) 		For teaching purposes Possible questions <ul style="list-style-type: none"> • Without using a calculator, convince me that $\frac{3}{8} = 0.375$ • Show me a fraction / decimal / percentage equivalent. • What is the same and what is different: 2.5, 25%, 0.025, $\frac{1}{4}$? Misconceptions <ul style="list-style-type: none"> • may make incorrect links. E.g. $\frac{1}{5} = 0.15$ or 0.5 • may think that $5\% = 0.5$, $4\% = 0.4$, etc. • may think it is not possible to have a percentage greater than 100%. 		
Pedagogical notes (implementation)		How will understanding be assessed & recorded (Impact)		
NRICH: History of fractions NRICH: Teaching fractions with understanding The division symbol (\div) is a fraction with a dot in numerator and denominator. <i>Every division can be written as a fraction</i> Common approaches <i>All pupils should use the horizontal fraction bar to avoid confusion when fractions are coefficients in algebraic situations</i>		8BAM7 Fractions and Decimals End of term Assessment in March End of Year Assessment in June How can parents help at home? MathsWatch clips Qualification KS3 - N32, N23c Qualification GCSE - 84, 88		
Further reading/discussion				
Reading / Enrichment KM: FDP conversion. Templates for taking notes. KM: Fraction sort. Tasks one and two only. KM: Maths to Infinity: Fractions, decimals, percentages, ratio, proportion NRICH: Matching fractions, decimals and percentages	Literacy Fraction Mixed number Top-heavy fraction Percentage Decimal Proportion Terminating Recurring Simplify, Cancel Notation Diagonal v horizontal fraction bar	Numeracy Links	Careers Links Accountant Banker Architect Basic numeracy requirement for all careers	