Subject	Year	Month	N	
Mathematics	11	November	Balcarras	
Topic:				
Direct and inverse proportion 6 lessons				
Content (Intent)				
Prior Learning	Future Le	Future Learning		
Year 10 Ratio January	x	x		
Year 9 Proportion November				
Objectives				
• Direct & inverse proportion in context e.g. currency conversions, recipes, best value, rates of pay and number				
of builders vs time taken to complete task.				
• Recognise and interpret graphs showing direct and inverse proportion, including square, cubic and direct				
proportion to square root.				
 Identify the type of proportion from a table of values, including direct, square, cubic, inverse, inverse square, 				
inverse cubic and square and cube root.				
• Write statements of proportionality and equations for quantities directly and inversely proportional to the				
square, cube, square root or cube root.				
• Use $y = kx$, $y = kx^2$ etc to solve proportion problems, where students find k, and then use k to find another				
value of either y or x				
• Set up and use equations to solve word and other problems involving direct proportion or inverse proportion				
and combinations of more than one formula using substitution				
Pedagogical notes (implementation)		How will understanding be assessed &		
· · · · · · · · · · · · · · · · · · ·	recorded (Impact)			
Consider using science contexts for problems involvin				
inverse proportionality, e.g. volume of gas inversel				
proportional to the pressure or frequency is inversely proportional to wavelength.				
	MathsWate	MathsWatch clips (Qualification GCSE)		
	42, 199			
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Further reading/discussion				
Reading / Enrichment	Literacy	Numeracy	Careers Links	
	Encracy	Links	Stock analyst	
			Retail banker	
			Real estate agent	
			Finance	