Subject	Year	Month	
Mathematics	10	December	Balcarras From strength to strength

Topic:

Percentages
(already covered at end of Y9)

2 lessons

Content (Intent)

Prior Learning	**Future Learning**
Year 9 GCSE Percentages June	

Objectives

- Convert between fractions, decimals and percentages;
- Express a given number as a percentage of another number;
- Express one quantity as a percentage of another where the percentage is greater than 100%
- Find a percentage of a quantity;
- Find the new amount after a percentage increase or decrease;
- Work out a percentage increase or decrease, including: simple interest, income tax calculations, value of profit or loss, percentage profit or loss;
- Compare two quantities using percentages, including a range of calculations and contexts such as those involving time or money;
- Find a percentage of a quantity using a multiplier;
- Use a multiplier to increase or decrease by a percentage in any scenario where percentages are used;
- Find the original amount given the final amount after a percentage increase or decrease (reverse percentages), including VAT;
- Use calculators for reverse percentage calculations by doing an appropriate division;
- Use percentages in real-life situations, including percentages greater than 100%;
- Describe percentage increase/decrease with fractions, e.g. 150% increase means $2\frac{1}{2}$ times as big;
- Understand that fractions are more accurate in calculations than rounded percentage or decimal equivalents, and choose fractions, decimals or percentages appropriately for calculations.

Pedagogical notes (implementation)	How will understanding be assessed & recorded (Impact)
Students should be reminded of basic percentages. Amounts of money should always be rounded to the nearest penny, except where successive calculations are done (i.e. compound interest, which is covered in a later unit). Emphasise the use of percentages in real-life situations.	**End of half term** Assessment in Oct **End of Year** Assessment in April **How can parents help at home?** **MathsWatch clips (Qualification GCSE)** 85, 86, 87, 88, 89 108, 109, 110,111

Further reading/discussion

Reading / Enrichment	**Literacy**	**Numeracy Links**	**Careers Links**
http://passyworldofmathematics.com/ebay-math-problem/ http://passyworldofmathematics.com/olympic-games-mathematics/			Accounting and Finance Market Trader Auctioneer Sports Coach (performance data) Retail Careers

			Basic numeracy requirement for all careers