Subject	Year	Month	
Mathematics	10	September	Balcarras *From strength to strength*

Topic:

Calculations, checking, rounding, product rule

3 lessons

Content (Intent)

Prior Learning	**Future Learning**
Year 9 Bounds and error intervals September Year 8 BIDMAS September	Year 10 Indices, roots, reciprocals & BIDMAS September Year 10 Accuracy & bounds March **Year 12** Pure Chapter 8 The binomial expansion

Objectives

- Add, subtract, multiply and divide decimals and whole numbers;
- Put digits in the correct place in a decimal calculation and use one calculation to find the answer to another;
- Round numbers to the nearest 10, 100, 1000, integer, a given number of decimal places and to a given number of significant figures;
- Estimate answers to one- or two-step calculations, including use of rounding numbers and formal estimation to 1 significant figure: mainly whole numbers and then decimals.
- Use the product rule for counting (i.e. if there are m ways of doing one task and for each of these, there are n ways of doing another task, then the total number of ways the two tasks can be done is m × n ways) including selecting 2 items from a population where order does or doesn't matter

Pedagogical notes (implementation)	**How will understanding be assessed & recorded (Impact)**
Encourage the exploration of different calculation methods. Amounts of money should always be rounded to the nearest penny. Make sure students are absolutely clear about the difference between significant figures and decimal places.	**End of half term** Assessment in Oct **End of Year** Mocks in April
	How can parents help at home?
	MathsWatch clips (Qualification GCSE) 17, 18, 66, 67 69 31, 32, 90, 91

Further reading/discussion

Reading / Enrichment	**Literacy**	**Numeracy Links**	**Careers Links**
			Caterer Builder Gardener Engineer Basic numeracy requirement for all careers