Subject	Year	Month	
Mathematics	10	October	Balcarras From strength to strength

Topic:

Algebra the basics

4 lessons

Content (Intent)

Prior Learning

Year 9 Expanding and factorising November
Year 9 Solving linear equations February

Future Learning

Year 10 Expanding and factorising single brackets November
Year 10 Expressions & substitution November

Objectives

- Use notation and symbols correctly;
- Write an expression;
- Select an expression/equation/formula/identity from a list and introduce the identity ≡ sign;
- Manipulate and simplify algebraic expressions by collecting 'like' terms; by multiplying e.g. $2a \times 3b$ and by cancelling, e.g. $\frac{4x}{2} = 2x$;
- Use index notation when multiplying or dividing algebraic terms including zero and negatives powers
- Use index laws in algebra.

Pedagogical notes (implementation)	How will understanding be assessed & recorded (Impact)
Emphasise correct use of symbolic notation, i.e. $3 \times y = 3y$ and not $y3$ and $a \times b = ab$. Use lots of concrete examples when writing expressions, e.g. 'B' boys + 'G' girls. Plenty of practice should be given and reinforce the message that making mistakes with negatives and times tables is a different skill to that being developed.	**End of half term** Oct **End of Year** Year 10 exams in April **How can parents help at home?** **MathsWatch clips (Qualification KS4)** 7, 33, 34, 35, 94, 134a

Further reading/discussion

Reading / Enrichment	Literacy	Numeracy Links	Careers Links
			Scientists Data analyst Computer programmer Mathematician Financial analyst