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

Topic:

Integers and place value
5 lessons

Content (Intent)

Prior Learning	**Future Learning**
Year 9	

Objectives
- Use and order positive and negative integers and use and understand the symbols <, > and ≠ ;
- Recall the 1-10 times tables and the corresponding division facts;
- Multiply and divide any number by powers of 10
- Add, subtract, multiply and divide positive and negative numbers (integers);
- Use brackets and the hierarchy of operations (not including powers);
- Round numbers to a given power of 10 and check answers by rounding and using inverse operations.

Pedagogical notes (implementation)	**How will understanding be assessed & recorded (Impact)**
Particular emphasis should be given to the importance of students presenting their work clearly.	**End of half term** Oct **End of Year** Year 10 exams in April
Formal written methods of addition, subtraction and multiplication work from right to left, whilst formal division works from left to right.	**How can parents help at home?**
Any correct method of multiplication will still gain full marks, for example, the grid method, the traditional method, Napier's bones. Negative numbers in real life can be modelled by interpreting scales on thermometers using F and C. Encourage the exploration of different calculation methods. Students should be able to write numbers in words and from words as a real-life skill.	**MathsWatch clips** Qualification KS3: N2a, N3ab, N4ab, N13a, N14a, N16, N27a, N28a, N29a Qualification KS4: 2, 19, 20, 30, 31, 68ab, 75

Further reading/discussion			
Reading / Enrichment http://passyworldofmathematics.com/real-world-integers/ http://passyworldofmathematics.com/drag-racing-integers/	**Literacy**	**Numeracy Links**	**Careers Links** Builder Gardener Engineer Retail work Basic numeracy requirement for all careers