Subject	Year	Month	
Mathematics	11	December	Balcarras From strength to strength

Topic:

Quadratic equations: graphs

3 lessons

Content (Intent)

Prior Learning	**Future Learning**
Year 10 Expanding brackets November Year 11 Quadratic equations: expanding and factorising	

Objectives

- Generate points and plot graphs of simple quadratic functions, then more general quadratic functions;
- Identify the line of symmetry of a quadratic graph;
- Find approximate solutions to quadratic equations using a graph;
- Interpret graphs of quadratic functions from real-life problems;
- Identify and interpret roots, intercepts and turning points of quadratic graphs.

Pedagogical notes (implementation)	How will understanding be assessed & recorded (Impact)
The graphs should be drawn freehand and in pencil, joining points using a smooth curve. Encourage efficient use of the calculator. Extension work can be through plotting cubic and reciprocal graphs, solving simultaneous equations graphically.	**End of half term** no **End of Year** 2nd mocks in Feb & March **How can parents help at home?** **MathsWatch clips** **Qualification KS3:** A15 **Qualification KS4:** 98, 160, 161

Further reading/discussion

Reading / Enrichment	**Literacy**	**Numeracy Links**	**Careers Links**
http://passyworldofmathematics.com/sydney-harbour-bridge-mathematics/			Engineer Physicist Statistician