Bishop Heber High School

Subject	Year	Term
Mathematics (Higher)	10	3

Topic

Algebra

Content (Intent)

Prior Learning (Topic): Shape and Data

- Simultaneous equations
- Quadratic equations
- Graphical solutions
- Proportion
- Transforming graphs
- Draw Trigonometric graphs
- Transform Trigonometric graphs

Future Learning (Topic)

What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)
• Solve simultaneous equations from situations or diagrams • Solve equations with unknown on both sides including brackets and negatives • Solve simultaneous equations when one is linear and one is quadratic • Solve quadratic equations by factorising, using the quadratic formula, completing the square. • Plot quadratics and cubics, exponential and reciprocals • Find solutions using iteration including change of sign • Plot and find the equation of a circle • Find the points of intersection of a line and a circle (including a tangent)	<u>Ongoing Assessment</u> • Q&A in plenary • Mini-whiteboards • Self and Peer assessment • 1 written homework per fortnight • 1 online homework per fortnight • Feedback and Challenge Time (FACT)
• Model and solve problems using direct and inverse proportion • Transform graphs horizontally, vertically and stretch parallel to the x and y axis • Draw the sin, cos and tan graphs • Transform the sin, cos and tan graphs	<u>Formal Assessment</u> Beginning of June – 45 min exam

How can parents help at home?

Help to learn 'need-to-know' formulas – in back of orange books
Encourage use of MyMaths (www.mymaths.co.uk)
Practise times tables on a regular basis – Pixl times table App

Helpful further reading/discussion (including Reading and Vocabulary Lists)

Reading

Direct to the following websites (logon ids will be in the front of the orange maths book);
www.mymaths.co.uk
vle.mathswatch.co.uk
www.mathsgenie.co.uk

Vocabulary Lists

Stretch
Exponential
Reciprocal
Tangent