**Bishop Heber High School**

| Subject | Year | Term |
|---|---|---|
| **Mathematics (Foundation)** | **11** | **1** |

## Topic

**Algebra; Shape; Number; Data; Ratio & Proportion**

### Content (Intent)

**Prior Learning (Units):** Number, Shape and Algebra

- Area, Volume and Angles
- Vectors
- Averages and Range from a Frequency table
- Pie Charts
- Scatter Diagrams
- Probability
- Decimals and Percentages
- Ratio and Proportion

**Future Learning (Topic)** Algebra; Shape; Number; Data; Ratio & Proportion

| What Knowledge and Skills will be taught (Implementation) | How will your understanding be assessed & recorded (Impact) |
|---|---|
| • Addition and Subtraction of Vectors<br>• Multiplying by a scalar<br>• Representing vectors as a diagram or Column Vector<br>• Solving Problems involving scatter diagrams to find correlation, draw lines of best fit and use the line of best fit to estimate. Correlation does not mean causation<br>• Problem solving using prior knowledge on Area, Volume, Angles, Averages, Decimals, Percentages, Ratio, Proportion and Probability | <u>Ongoing Assessment</u><br>• Q&A in plenary<br>• Mini-whiteboards<br>• Self and Peer assessment<br>• 1 written homework per week |
| • Review of question level analysis from first mock exam paper, at an individual class level, leading to a bespoke programme of revision within a framework of:<br>• Key Number topics<br>• Key Algebra topics<br>• Key Shape and space topics<br>• Key Data topics<br>• Ratio and Proportion | <u>Formal Assessment</u><br>Mid-October – 1st Mock examination in Exam Hall |

### How can parents help at home?

Help to learn 'need-to-know' formulas – in back of orange books
Practise times tables on a regular basis – Pixl times table App

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

**Readiing**
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**
Vector
Scalar
Correlation
Causation