**SUMMARY INTERMEDIATE TIER MATHS:WJEC**

**A summary of the key topics is listed below to help with revision for the 2017 Examination**

**NUMBER**

Converting between decimals, fractions, ratios and percentages

LCM and HCF of numbers written as the product of their prime factors

Expressing numbers in standard form with positive and negative powers of 10

Calculating using ratios in a variety of situations; proportional division

Foreign currencies and exchange rates

Simple and compound interest

**ALGEBRA**

Finding the nth term of a sequence where the rule is linear or quadratic.

Knowledge and use of the form y = mx + c to represent a straight line

Factorisation of quadratic expressions of the form x2 + ax + b.

Multiplication of two linear expressions; expansion of (ax + by)(cx + dy)

Solution of a range of cubic equations by trial and improvement methods

The formation and solution of two simultaneous linear equations

**GEOMETRY & MEASURE**

Vocabulary of triangles, quadrilaterals and circles

Constructing the perpendicular from a point to a line.

Using Pythagoras’ theorem in 2-D, including reverse problems

Using angle and tangent properties of circles

Interpretation and construction of scale drawings

Transformations using rotation, reflection and translation

**STATISTICS**

Constructing and interpreting grouped frequency diagrams and frequency polygons

Calculating mean, median and mode for a discrete frequency distribution.

Drawing of conclusions from scatter diagrams using positive & negative correlation

Calculating theoretical probabilities based on equally likely outcomes