

# Maths - Foundation Tier

## Module 1

**Topic Title:** NUMBER & GEOMETRY

**Brief Summary of Content Studied:**

Multiply and divide mixed numbers and fractions.  
To know and use the laws of indices.  
Write large numbers in standard form.  
Convert large numbers from standard form into ordinary numbers.  
Write small numbers in standard form.  
Convert numbers from standard form with negative powers of ordinary numbers  
To multiply and divide numbers in standard form.  
To add and subtract numbers in standard form.  
Understand similarity.  
Use similarity to solve angle problems.  
Find the scale factor of an enlargement.  
Use similarity to solve problems.  
Understand the similarity of regular polygons. Calculate perimeters of similar shapes.  
Recognise congruent shapes.  
Use congruence to work out unknown angles.  
Use congruence to work out unknown sides.  
Add and subtract vectors.  
Find the resultant of two vectors.  
Subtract vectors.  
Find multiples of a vector.

**Knowledge Organiser:**

[https://docs.google.com/presentation/d/1N50\\_U8Z\\_WvZKLqNqq5cGENcEqVP4NRsCNLFfXxFVYZ4/edit?usp=sharing](https://docs.google.com/presentation/d/1N50_U8Z_WvZKLqNqq5cGENcEqVP4NRsCNLFfXxFVYZ4/edit?usp=sharing)

## Module 2

**Topic Title:** ALGEBRA

**Brief Summary of Content Studied:**

Draw and interpret graphs of cubic functions. Draw and interpret graphs of  $y = 1/x$ . Draw and interpret non-linear graphs to solve problems.  
Solve simultaneous equations by drawing a graph. Write and solve simultaneous equations.  
Solve simultaneous equations by drawing a graph. Write and solve simultaneous equations.  
Change the subject of a formula. Identify expressions, equations, formulae and identities. Prove results using algebra.  
Multiply double brackets.  
Recognise quadratic expressions.  
Square single brackets.  
Plot graphs of quadratic functions.  
Recognise a quadratic function.  
Use quadratic graphs to solve problems.  
Solve quadratic equations  $ax^2 + bx + c = 0$  using a graph.  
Solve quadratic equations  $ax^2 + bx + c = k$   
Using a graph.

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<https://docs.google.com/presentation/d/1gr-NZBAUPiJD8MYPyC1ZS-AU1z39wH-IUKkcmbGnID8/e/dit?usp=sharing>

**Module 3**

**Topic Title:** Revision

**Brief Summary of Content Studied:**

Based on the individual class assessments, topics are planned and taught per class in order to strengthen weaker areas. Assessments take place every 2 weeks.

**Module 4**

**Topic Title:** Revision

**Brief Summary of Content Studied:**

Based on the individual class assessments, topics are planned and taught per class in order to strengthen weaker areas. Assessments take place every 2 weeks.

**Module 5**

**Topic Title:** Revision

**Brief Summary of Content Studied:**

Based on the individual class assessments, topics are planned and taught per class in order to strengthen weaker areas. Assessments take place every 2 weeks.

**Module 6**

**Topic Title:** Revision & Exam

**Brief Summary of Content Studied:**

Based on the individual class assessments, topics are planned and taught per class in order to strengthen weaker areas. Assessments take place every 2 weeks.