KS3 Topic Order

Year 10

1. Number: Calculations and Number Equivalence
2. Algebra: Equations
3. Shape, Space & Measures: Angles and Shapes
4. Shape, Space & Measures: Pythagoras' Theorem
5. Handling Data: Data Analysis
6. Algebra: Sequences (not on examination)
7. Handling Data: Tabulation and Representation

1. Number: Calculations and Number Equivalence

- Understand and use BIDMAS
- Understand and calculate square roots and cube roots
- Calculate reciprocals
- Recognise and use relationships between operations, including inverse operations
- Recognise that recurring decimals are exact fractions and that some exact fractions are recurring decimals

2. Algebra: Equations

- Set up and solve linear equations in one unknown, including those with the unknown on both sides of the equation and equations of the form $\frac{x}{4}+3=7$
- Use trial and improvement to find approximate solutions of equations where there is no simple method of solving them (to 1dp only)

3. Shape, Space and Measures: **Angles and Shapes**

- Measure line segments and angles in geometric figures
- Use the sum of angles in a triangle for example, to deduce the angle sum in any polygon
- Calculate and use the sums of the interior and exterior angles of polygons

4. Shape, Space and Measures: **Pythagoras' Theorem**

- Use Pythagoras' Theorem to find the missing side in a right-angled triangle
- Use Pythagoras' theorem in 2D problems

5. Handling Data: Data Analysis

- Estimate mean from a grouped frequency distribution
- Identify the modal class and the class in which the median lies
- Choose the most appropriate average (mean, median or mode) for a given line of enquiry

6. Algebra: Sequences (not on examination)

- Find the nth term of a sequence where the rule is linear

7. Handling Data: Tabulation and Representation

- Construct and interpret a wide range of graphs and diagrams for discrete and continuous data
- Construct and interpret frequency tables and diagrams for sets of continuous data
  - Stem & Leaf
  - Bar Charts
  - Frequency Polygons
  - Line Graphs
  - Scatter Graphs
  - Distance-Time Graphs
- Misleading graphs