

Year 7 Rationale:

- ✓ No wasted lessons recapping/ basic low- level skill.
- ✓ Assume levels on entry are correct and build on prior knowledge and attainment allowing students to continue to make rapid progress.
- ✓ Starters consolidate previous skills taught and are recapped using the memory model.
- ✓ Topics follow a logical progression and are woven into a cumulative curriculum where skills are built up throughout the year.
- ✓ The structure of each lesson allows students to access problem solving and reasoning.
- ✓ Planned cultural capital: Using Mathematical skills in real life contexts linked to careers and problem solving. Topics: Number, working with units and volume and surface area.

Year 8 Rationale:

- ✓ Topics build on knowledge from Year 7 and prior knowledge outlined is crucial to developing students deeper understanding.
- ✓ Starters consolidate previous skills taught and are recapped using the memory model.
- ✓ Topics follow a logical progression and are woven into a cumulative curriculum where skills are built up throughout the year.
- ✓ The structure of each lesson allows students to access problem solving and reasoning.
- ✓ Planned cultural capital: Using Mathematical skills in real life contexts linked to careers and problem solving. Topics: Percentages, area, SDT, circles, volume and surface area.

Mathematics Curriculum: 5 Year plan

	LP1	LP2	LP3
Year 7	<p>Multiples and Factors</p> <p>Decimals</p> <p>Estimating</p> <p>Fractions</p> <p>Number</p> <p>FDP</p>	<p>Sequences</p> <p>Expressions and Identities</p> <p>Algebra</p> <p>Equations and Inequalities</p> <p>Working with Units</p>	<p>Volume</p> <p>Surface Area</p> <p>Transformations</p> <p>Conversions</p> <p>Data</p>
Year 8	<p>Multiples and Factors</p> <p>Number</p> <p>Fractions</p> <p>Decimals</p> <p>Sequences</p> <p>Expressions</p>	<p>Equations</p> <p>Angles in a Triangle</p> <p>Congruency</p> <p>Constructing Triangles</p> <p>Angles in a Quadrilateral</p> <p>Area</p> <p>FDP</p>	<p>Percentages</p> <p>Ratio</p> <p>SDT</p> <p>Rounding</p> <p>Circles</p> <p>Volume and Surface Area</p> <p>Graphs/ Data</p>
Year 9	<p>Number Core Skills</p> <p>Fractions</p> <p>FDP</p> <p>Algebra Core Skills</p> <p>Expressions</p> <p>Equations</p>	<p>Inequalities</p> <p>Graphs</p> <p>Sequences</p> <p>Ratio Core Skills</p> <p>Compound Measure</p> <p>Proportion</p>	<p>Similarity</p> <p>Constructions</p> <p>Circles</p> <p>Pythagoras</p> <p>Data</p> <p>Probability</p>
Year 10	GCSE Content	GCSE Content	GCSE Content
Year 11	GCSE Content	GCSE Content	GCSE Content

Year 9 Rationale:

- ✓ Topics build on knowledge from Year 7 and 8 and consolidate core skills needed for GCSE.
- ✓ Starters consolidate previous skills taught and are recapped using the memory model.
- ✓ Topics follow a logical progression and are woven into a cumulative curriculum where skills are built up throughout the year.
- ✓ The structure of each lesson allows students to access problem solving and reasoning throughout.
- ✓ Students are given many opportunities to link their GCSE learning to real life
- ✓ Planned cultural capital: Using Mathematical skills in real life contexts linked to careers and problem solving. Topics: Core Number skills, money problems, core ratio skills, compound measure, probability

Year 10/11 Rationale:

- ✓ Students in Year 10 and 11 build on core skills and apply their knowledge in different exam situations to prepare them for their Mathematics GCSE exam.
- ✓ Through the Edexcel GCSE Curriculum, students in KS4 develop their fluency, reasoning and problem solving skills.
- ✓ Year 10 builds on students' confidence to apply skills in different contexts and understand the interconnection between different topics.
- ✓ Year 11 allows students to practice and deepen their knowledge becoming more proficient in tackling multi step problems.
- ✓ Planned cultural capital: Using Mathematical skills in real life contexts and problem solving. Topics: Number, Algebra, Ratio, Proportion and Rates of Change, Geometry and Measures, Statistics and Probability

