

THE INDEPENDENT GRAMMAR SCHOOL: DURHAM

Mathematics Curriculum Overview – Middle School (Years 5–8)

White Rose Maths (Version 3) and progression towards GCSE Mathematics • Middle School Curriculum Map

Year Group	Michaelmas 1	Michaelmas 2	Lent 1	Lent 2	Trinity 1	Trinity 2
Year 5	Place value; Addition & subtraction	Multiplication & division	Multiplication & division; Fractions	Fractions; Decimals & percentages	Perimeter & area; Statistics	Shape; Position & direction; Converting units; Volume
Year 6	Place value; Four operations	Fractions	Ratio; Algebra	Decimals; Percentages	Area, perimeter & volume; Statistics	Consolidation; Revision; Problem solving
Year 7	Number: Place value & rounding; Calculations	Algebra: Expressions, equations & formulae; Sequences	Ratio & proportion; Percentages	Lines & angles; Reasoning with geometry	Data handling: Averages & range; Probability	Geometry: Area & perimeter; Volume; Consolidation
Year 8	Indices & standard form; Powers & roots; Calculations	Linear equations; Inequalities; Sequences	Fractions, decimals & percentages; Ratio & proportion	Angles in polygons; Transformations	Pythagoras' theorem; Trigonometry (intro); 3D shapes	Data: Charts & graphs; Probability; Consolidation

Curriculum Intent

- Develop deep conceptual understanding through a structured progression
- Build fluency, reasoning and problem-solving skills
- Ensure all pupils can access age-related expectations and beyond
- Follow a coherent sequence aligned with White Rose Maths Version 3

Document Owner: Mathematics Lead

Implementation

- Maths is taught daily using small-step progression
- Key concepts are revisited and built upon across the year
- Concrete, pictorial and abstract representations are embedded
- Regular formative assessment informs teaching

Review Cycle: Annual

Impact

- Demonstrate strong number sense and mathematical reasoning
- Apply skills confidently across a range of contexts
- Be well-prepared for the next stage of their education

Date: _____