

Fairfield High School Curriculum Overview – Year 8

Subject	Maths	Why do we study these units in Year 8?
Lessons per fortnight	7	Year 8 in Maths continues the <u>“Mastery”</u> approach from Year 7. These units continue to build on the foundational skills that were learnt in Year 7, such as deeper exploration of fractions and algebra including graphs. Additionally, number skill is strengthened through the studying of percentages and ratio. All skills are then contextualised within the geometry unit.
Setting	1 small nurture group and 3 mixed attainment sets per band	

Students are encouraged to be Responsible Global Citizens through activities/content on...

Throughout the year all students will be invited to workshops, trips and activities that will focus on employability, creativity, global learning and sustainability in mathematics.

We ensure all students experience high challenge in the subject by including...

Highly differentiated lessons tailored to the need of every class with problem solving and reasoning elements that will sufficiently challenge high attaining students whilst being accessible to students who need a little more scaffolding

Literacy work this year includes...

All lessons will have mathematical reasoning attained through questioning and oracy. All lessons and assessments will have problem solving components that require students to interrogate mathematical language and find solutions to problems that are presented to them in words thereby translating language into abstract ideas.

Innovation and Creativity opportunities this year include...

Throughout the year all students will be invited to workshops, trips and activities that will focus on employability, creativity, global learning and sustainability in mathematics.

Employability opportunities/skills covered this year are...

Throughout the year all students will be invited to workshops, trips and activities that will focus on employability, creativity, global learning and sustainability in mathematics.

Term	Unit title	Knowledge and Understanding/content	Skills	Assessment
1	1. Proportional Reasoning	<ul style="list-style-type: none"> • 1.1 Ratio and Scale • 1.2 Multiplying Fractions 	Fluency in number Problem Solving Reasoning	Formative End of Block Homeworks incorporating fluency, problem solving and reasoning.
2	2. Representations	<ul style="list-style-type: none"> • 2.1 The coordinate grid • 2.2 Representing Data 	Fluency in number Problem Solving Reasoning	Formative End of Block Homeworks and Summative test incorporating

				fluency, problem solving and reasoning.
3	3. Developing Algebraic Thinking	<ul style="list-style-type: none"> • 3.1 Algebraic Manipulation • 3.2 Algebraic Sequences 	Fluency in algebra Problem Solving Reasoning	Formative End of Block Homeworks incorporating fluency, problem solving and reasoning.
4	4. Applying Number	<ul style="list-style-type: none"> • 4.1 Fractional and Percentage Change • 4.2 Standard Form 	Fluency in geometry Problem Solving Reasoning	Formative End of Block Homeworks and Summative test incorporating fluency, problem solving and reasoning.
5	5. Developing Geometric Reasoning	<ul style="list-style-type: none"> • 5.1 Area and Perimeter • 5.2 Symmetry 	Fluency in number Problem Solving Reasoning	Formative End of Block Homeworks and Summative test incorporating fluency, problem solving and reasoning.

6	6. Revision	<ul style="list-style-type: none"> • Synthesis of Number, Algebra and Geometry 	Fluency in number, algebra and geometry Problem Solving Reasoning	Summative end of year test incorporating fluency, problem solving and reasoning.
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