Fairfield High School Curriculum Overview – Year 7

Subject	Maths	**Why do we study these units in Year 7?**
Lessons per fortnight	7	Year 7 in Maths begins with two terms covering the number concepts that should be familiar from primary school. These concepts are then taught through problem-solving and reasoning as students are introduced to the **"mastery"** approach to working. In addition to the topics we will ensure that students are familiar with mathematical representations for mastery such as bar modelling. From Term 3 onwards, students begin learning fundamental skills that are essential to accessing and understanding higher level mathematics once they enter Year 9. These skills include geometry and generalisation of mathematical reasoning through algebra.
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. Exploring Algebraic Thinking	• 1.1 Sequences • 1.2 Algebraic Notation	Fluency in number Problem Solving Reasoning	Formative End of Block Homeworks and Summative test incorporating fluency, problem solving and reasoning.
2	2. Exploring Number	• 2.1 Place Value • 2.2 FDP Equivalence	Fluency in number Problem Solving Reasoning	Formative End of Block Homeworks and Summative test incorporating

				fluency, problem solving and reasoning.
3	3. Exploring Arithmetic Operations	• 3.1 Addition and Subtraction • 3.2 Multiplication and Division	Fluency in algebra Problem Solving Reasoning	Formative End of Block Homeworks and Summative test incorporating fluency, problem solving and reasoning.
4	4. Developing Number	• 4.1 Directed Number • 4.2 Fractions	Fluency in geometry Problem Solving Reasoning	Formative End of Block Homeworks and Summative test incorporating fluency, problem solving and reasoning.
5	5. Exploring Geometric Reasoning	• 5.1 Construction • 5.2 Angles	Fluency in number Problem Solving Reasoning	Formative End of Block Homeworks and Summative test incorporating fluency, problem solving and reasoning.

6	6. Revision	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.