

Year 7 Skills Pathway - Mathematics

	Bronze 1-4	Silver 5-6	Gold 6-7	Platinum 7-9
Number - Computation and place value	I can use a single approach for calculations. I am more confident using manipulatives or inefficient methods. I can utilise place value to explain the size of some numbers.	I can use place value to support calculation and to change representation between fractions and decimals. I can use efficient calculation methods accurately.	I can apply appropriate methods without prompting to solve calculations and I can explain why these are most efficient. I can recognise when place value is part of a solution and confidently manipulate numbers using the ideas.	I can use a range of efficient strategies in response to the calculation required. I can explain the conceptual understanding that underpins computation methods. I can use place value to reason and solve problems involving fractions and decimals.
Number - Fractions	I can represent fractions pictorially and through manipulatives. I can combine and divide fractions pictorially and through manipulatives.	I can use fraction notation to find equivalent fractions and explain how to combine and divide fractions.	I can relate fractions to decimals through a clear understanding of place value.	I can generalise the observed patterns between fractions to formalise processes for operations.
Ratio and proportion	I can express quantities through my relative sizes.	I can express quantities as ratios and solve problems through proportional reasoning.	I can use multiplicative relationships to solve problems and represent in different forms.	I can understand the concept of ratio and proportion and knowingly utilise it to solve problems graphically and algebraically.
Algebra - Use of notation and manipulation.	I can use some algebraic notation and perform some operations algebraically.	I can engage with and use algebraic notation to perform calculations accurately despite finding it difficult.	I can confidently manipulate algebraic expressions and see the value of using algebra.	I can fluently carry out calculations with algebra. I am comfortable using algebraic notation to explain, reason and generalise.
Algebra - Equations and the concept of equality	I can solve simplistic equations by following a process or using trial and error.	I can create simple pictorial representations for equations that support them to solve them.	I can confidently solve equations. I can form simple equations using the concept of equality and solve.	I can use the concept of equality to reason and solve problems.



Courage and Courtesy

