

## 9 Pathway A

## MID – YEAR EXAM 2011

<b>INDICES (6.01 -6.05)</b>	*	Index laws
	•	Negative indices
	•	Fractional indices
	•	Scientific Notation
<b>GEOMETRY(Ch 5)</b>	*	Angle facts
	•	Triangle & quadrilateral properties
	•	Regular polygons
	•	Deductive reasoning
	•	Congruent triangle tests & related proofs
<b>EQUATIONS (Ch 8)</b>	*	Grouping symbols (no fractions)
	•	Fractions methods
	•	Problems
	•	Inequations & graphs of solutions
	•	Formulae: substitution & evaluation
	•	Formulae: change of subject / solving literal equations.
<b>CONSUMER MATH (9)</b>	*	Earning money
	*	Extra payments
	•	Deductions & net pay
	•	Taxation - everything
	•	GST
<b>ALGEBRA (3.03 – 3.08)</b>	*	Binomial products
	•	Special products – $(a \mp b)^2$ , $(a + b)(a - b)$
	•	Combinations
	•	Extension to $(x + a)(x + b)(x + c)$ , $(x + a)^3$

### ***SHORT EXTENSION SECTION***

#### **EXAM FORMAT (2 hours)**

**Separate sections (algebra, number, measurement etc) each with multiple-choice, short-answer & free-response questions.**