Preliminary Mathematics Standard Portfolio Summary

Name: Teacher:

	Concept	Summary	Examples	Create your own question and solve
1	**2.01 Simplifying Algebraic Expressions**		*Simplify:* $2k + 8 - k^2 - 4k$ *Simplify:* $\frac{2x^2}{w} \times \frac{b}{2}$ *Simplify:* $\frac{x}{3} \div \frac{x}{2}$	

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2	2.02 Expanding Algebraic Expressions		*Expand:* $3ab(a + b)$	
3	2.03 Formulas		Use the compound interest formula, $A = P(1 + r)^n$ to calculate the amount to which a principal of $5600 will grow if invested at 9.4%pa for 5 years.	

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4	**2.04 Solving Equations**		*Solve:* $\frac{x-2}{3} + 10 = 20$ *Solve:* 8e = 2(e - 6)	
5	**2.05 Formulas and equations**		*If* $a = 2$, $b = 3$*, solve for c:* $\frac{2c}{a} + b = 10$	

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6	**2.06 Changing the subject of a formula**		Make *F* the subject of the formula $C = \frac{5}{9}(F - 32)$	

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7	**12.01 Blood alcohol content (BAC)**		Who has the lowest blood alcohol level? A 78kg male who consumed 6 standard drinks over 4 hours or a 58kg female who consumed 4 standard drinks over 3 hours. Use calculations to justify your choice.	