**Year 12 General Mathematics 2018 Overview**

**Teacher: Rebecca Vogt**

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| **Weeks** | **Topics** | **Content** | **Assessment** |
| **Term 1**  1-5 | **Applied Geometry** | * Pythagoras Theorem * Trigonometry * Sine Rule * Cosine Rule * Area of compound shapes * Volume of compound shapes * Simpson’s Rule * Absolute and relative error | **Applied Geometry SAT #1** |
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| **Term 1**  6-11 | **Modelling with Linear Relationships** | * Linear Functions * Simultaneous Equations * Linear Programming * Trial and error * Non-integer optimal solution | **Linear Relationships**  **SAT #2** |
| **Term 2**  1-5 | **Financial Models** | * Compound Interest * Taxable Income * Inflation * Superannuation * Sinking Funds * Reducing balance of loans | **Financial Models SAT #3**  **Financial Models Investigation** |
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| **Term 2**  6-10  **Term 3**  1-3 | **Discrete Models** | * Critical Path analysis * Precedence tables * Drawing networks * Forward and backward scan * Changing initial parameters * Hungarian algorithm | **Discrete Models SAT #4**  **Discrete Models Investigation** |
| **Term 4**  4-10 | **Statistical Models** | * Data and sampling * Analysis and representation * Scatterplots * Correlation Coefficients * Linear Regression * Exponential regression * Normal distribution | **Statistics Models SAT #5** |
| **Term 4 Revision** | | | |
| **EXAM ( 2hrs)** | | | |