**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)** |