

Stage 1 General Mathematics: Semester 1 Overview 2019

Teacher: Lois Haska

Weeks	Topic	Tasks
Term 1 Weeks 1 - 5	Applications of Trigonometry <ul style="list-style-type: none"> • Pythagoras • SOHCAHTOA • 2D & 3D problems • Sine Rule • Cosine Rule • Bearings • Area of non-right-angle triangles using $\frac{1}{2}ab\sin C$ & Heron's Rule 	<p align="center">SAT 1</p> <p align="center">Applications of Trigonometry</p> <p>Supervised written assessment. One A4 page of handwritten notes permitted Use of graphics calculator Total time: 50 minutes</p> <p>The three Skill Assessment Tasks have a total weighting of 65%</p>
Term 1 Weeks 6-11	Linear and Exponential Functions <ul style="list-style-type: none"> • Creating a table of values • Graphing linear relationships • Finding slope and y-intercept • Linear functions • Slope – intercept form $y = mx+c$ • General form $Ax+By=C$ • Simultaneous equations • Problem solving using simultaneous equations • Review index laws • Exploring exponential functions using a table of values • Graphing exponential functions • Growth and decay 	<p align="center">SAT 2</p> <p align="center">Linear and Exponential Functions</p> <p>Supervised written assessment. One A4 page of handwritten notes permitted Use of graphics calculator</p> <p>Total time: 50 minutes</p>
Term 2 Week 1-7	Investing and Borrowing <ul style="list-style-type: none"> • Simple Interest • Compound Interest • Investment • Shares • Tax • Inflation • Credit Cards • Personal Loans 	<p align="center">SAT 3</p> <p align="center">Investing and Borrowing</p> <p>Supervised written assessment. One A4 page of handwritten notes permitted Use of graphics calculator</p> <p>Investing and Borrowing Investigation Task 1 (35%)</p> <p>3 weeks to complete. Some class time is allowed to support verification. Maximum of 8 A4 pages. Report format as described in the General Mathematics subject outline.</p>
Term 2 Week 8-10	Exam Revision and Exam on topics from Semester 1	

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