

GENERAL MATHEMATICS – 2 UNIT

<p>Preliminary course</p> <p>Two pathways The syllabus explicitly describes two pathways for Mathematics General that start <i>from Year 11</i>:</p> <ul style="list-style-type: none"> ▪ Preliminary Mathematics General/HSC General 1 pathway ('Pathway 1') <ul style="list-style-type: none"> ➤ for students who have met all Stage 5.1 outcomes ➤ vocational pathway, providing practical maths for life, heading towards the workforce or further training ▪ Preliminary Mathematics General/HSC General 2 pathway ('Pathway 2') <ul style="list-style-type: none"> ➤ for students who have met some or all Stage 5.2 outcomes, especially in algebra and trigonometry ➤ academic pathway, heading towards HSC, ATAR, university <p>STRANDS ($\frac{2}{3}$ of course time)</p> <p>FINANCIAL MATHEMATICS</p> <ul style="list-style-type: none"> • Earning and managing money • Investing money • Taxation <p>DATA AND STATISTICS</p> <ul style="list-style-type: none"> • Data collection and sampling • Displaying and interpreting data • Summary statistics <p>MEASUREMENT</p> <ul style="list-style-type: none"> • Units of measurement • Perimeter, area and volume • Similar figures and trigonometry <p>PROBABILITY</p> <p>ALGEBRA AND MODELLING</p> <ul style="list-style-type: none"> • Algebra • Linear relationships <p>FOCUS STUDIES ($\frac{1}{3}$ of course time)</p> <p>MATHEMATICS AND COMMUNICATION</p> <ul style="list-style-type: none"> • Mobile phone plans • Digital download and file storage • <p>MATHEMATICS AND DRIVING</p> <ul style="list-style-type: none"> • Costs of purchase and insurance • Running costs and depreciation • Safety 	<p>HSC course: Maths General 2</p> <p>STRANDS ($\frac{2}{3}$ of course time)</p> <p>FINANCIAL MATHEMATICS</p> <ul style="list-style-type: none"> • Credit and borrowing • Annuities and loan repayments <p>DATA AND STATISTICS</p> <ul style="list-style-type: none"> • Interpreting sets of data • The normal distribution • Sampling and populations <p>MEASUREMENT</p> <ul style="list-style-type: none"> • Area and volume • Applications of trigonometry (sine and cosine rules) • Spherical geometry <p>PROBABILITY</p> <p>ALGEBRA AND MODELLING</p> <ul style="list-style-type: none"> • Algebra • Modelling linear relationships • Modelling non-linear relationships • <p>FOCUS STUDIES ($\frac{1}{3}$ of course time)</p> <p>MATHEMATICS AND HEALTH</p> <ul style="list-style-type: none"> • Body measurements • Medication • Life expectancy • <p>MATHEMATICS AND RESOURCES</p> <ul style="list-style-type: none"> • Water availability and usage • Dams, land and catchment areas • Energy and sustainability
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