

# TAX 101

## ACT Senior Curriculum Mathematics

### Tax 101 - Activity 1: What is tax and why do we need it? Years 11-12 Task

<p><b>Essential Mathematics (A course)</b></p>	<p><b>Unit 1- Topic 4: Graphs</b></p> <ul style="list-style-type: none"> <li>interpret information presented in graphs, such as conversion graphs, line graphs, step graphs, column graphs and picture graphs <b>(EMA36)</b></li> <li>discuss and interpret graphs found in the media and in factual texts <b>(EMA38)</b></li> <li>determine which type of graph is best used to display a dataset <b>(EMA39)</b></li> <li>use spreadsheets to tabulate and graph data <b>(EMA40)</b></li> </ul> <p><b>Unit 2 -Topic 2: Percentages</b></p> <ul style="list-style-type: none"> <li>review calculating a percentage of a given amount <b>(EMA19)</b></li> <li>review one amount expressed as a percentage of another <b>(EMA20)</b></li> </ul>
<p><b>Essential Mathematics (M course)</b></p>	<p><b>Unit 1 - Topic 4: Graphs</b></p> <ul style="list-style-type: none"> <li>use information presented in graphs, for example conversion graphs, line graphs, step graphs, column graphs and picture graphs <b>(EMM30)</b></li> <li>discuss graphs found in the media and texts <b>(EMM31)</b></li> <li>use graph to display a dataset <b>(EMM32)</b></li> <li>use spreadsheets to make tables and graphs of data <b>(EMM33)</b></li> </ul> <p><b>Unit 2 - Topic 2: Percentages</b></p> <ul style="list-style-type: none"> <li>review calculating a percentage of a given amount <b>(EMM17)</b></li> </ul>
<p><b>Mathematical Applications (T Course)</b></p>	<p><b>Unit 1 - Topic 1: Consumer arithmetic</b></p> <ul style="list-style-type: none"> <li>review rates and percentages <b>(MAT01)</b></li> <li>calculate payments based on government allowances and pensions <b>(MAT03)</b></li> </ul> <p><b>Unit 2 - Topic 3: Linear equations and their graphs</b></p> <ul style="list-style-type: none"> <li>interpret piece-wise linear and step graphs used to model practical situations; for example, the tax paid as income</li> </ul>

Tax 101 - Activity 2: Tax: Who, what, how and why	
Essential Mathematics (A course)	<p><b>Unit 1 - Topic 1: Calculations, percentages and rates</b></p> <ul style="list-style-type: none"> <li>• solve practical problems requiring basic number operations (EMA01)</li> <li>• ascertain the reasonableness of answers to arithmetic calculations (EMA03)</li> <li>• use a calculator for multi-step calculations (EMA05)</li> <li>• calculate a percentage of a given amount (EMA11)</li> <li>• determine one amount expressed as a percentage of another (EMA12)</li> <li>• apply percentage increases and decreases in situations; for example, mark-ups, discounts and GST. (EMA13)</li> </ul> <p><b>Topic 4: Graphs</b></p> <ul style="list-style-type: none"> <li>• interpret information presented in two-way tables (EMA37)</li> </ul>
Essential Mathematics (M course)	<p><b>Unit 1 - Topic 1: Calculations, percentages and rates</b></p> <ul style="list-style-type: none"> <li>• use basic number operations (EMM01)</li> <li>• ascertain the reasonableness of answers to arithmetic calculations (EMM03)</li> <li>• use a calculator for multi-step calculations (EMM04)</li> <li>• calculate a percentage of a given amount (EMM08)</li> <li>• apply percentage increases and decreases; for example, mark-ups, discounts and GST (EMM09)</li> </ul>
Mathematical Applications (T Course)	<p><b>Unit 2 - Topic 3: Linear equations and their graphs</b></p> <ul style="list-style-type: none"> <li>• interpret piece-wise linear and step graphs used to model practical situations; for example, the tax paid as income increases, ... (MAT22)</li> </ul>

Tax 101 - Activity 4: The Budget: Taxes and spending Years 11-12 Task	
Essential Mathematics (A course)	<p><b>Unit 1 - Topic 4: Graphs</b></p> <ul style="list-style-type: none"> <li>• interpret information presented in graphs, such as conversion graphs, line graphs, step graphs, column graphs and picture graphs (EMA36)</li> <li>• discuss and interpret graphs found in the media and in factual texts (EMA38)</li> </ul> <p><b>Unit 2 - Topic 1: Representing and comparing data</b></p> <ul style="list-style-type: none"> <li>• display numerical data as frequency distributions, dot plots, stem and leaf plots, and histograms (EMA04)</li> </ul>
Essential Mathematics (M course)	<p><b>Unit 1 - Topic 4: Graphs</b></p> <ul style="list-style-type: none"> <li>• use information presented in graphs, for example conversion graphs, line graphs, step graphs, column graphs and picture graphs (EMM30)</li> <li>• discuss graphs found in the media and texts (EMM31)</li> </ul> <p><b>Unit 2 - Topic 1: Representing and comparing data</b></p> <ul style="list-style-type: none"> <li>• display numerical data; for example as frequency distributions, dot plots, stem and leaf plots, and histograms (EMM04)</li> </ul>

Tax 101 - Interactive – You make the decision	
Essential Mathematics (A course)	<p><b>Unit 1 - Topic 1: Calculations, percentages and rates</b></p> <ul style="list-style-type: none"> <li>• solve practical problems requiring basic number operations (EMA01)</li> <li>• use a calculator for multi-step calculations (EMA05)</li> </ul>
Essential Mathematics (M course)	<p><b>Unit 1 - Topic 1: Calculations, percentages and rates</b></p> <ul style="list-style-type: none"> <li>• use basic number operations (EMM01)</li> <li>• use a calculator for multi-step calculations (EMM04)</li> </ul>

# YOUR TAX

## ACT Senior Curriculum Mathematics

### Your Tax - Activity 1: Income and income tax

**Essential Mathematics (A course)**

**Unit 1 - Topic 4: Graphs**

- interpret information presented in two-way tables **(EMA37)**

### Your Tax - Activity 1: Income and income tax Years 11-12 Task

**Essential Mathematics (A course)**

**Unit 1 - Topic 1: Calculations, percentages and rates**

- solve practical problems requiring basic number operations **(EMA01)**
- use a calculator for multi-step calculations **(EMA05)**

**Unit 2 - Topic 2: Percentages**

- review calculating a percentage of a given amount **(EMA19)**  
review one amount expressed as a percentage of another **(EMA20)**

**Essential Mathematics (M course)**

**Unit 1 - Topic 1: Calculations, percentages and rates**

- use basic number operations **(EMM01)**
- use a calculator for multi-step calculations **(EMM04)**

**Unit 2 - Topic 2 - Percentages**

- review calculating a percentage of a given amount **(EMM17)**

**Mathematical Applications (T Course)**

**Unit 1 - Topic 1: Consumer arithmetic**

- review rates and percentages **(MAT01)**
- calculate the dividend paid on a portfolio of shares, given the percentage dividend or dividend paid per share, for each share; and compare share values by calculating a price-to-earnings ratio. **(MAT08)**

Your Tax - Activity 2: Working and paying tax	
Essential Mathematics (A course)	<b>Unit 1 - Topic 1: Calculations, percentages and rates</b> <ul style="list-style-type: none"> <li>• solve practical problems requiring basic number operations <b>(EMA01)</b></li> <li>• ascertain the reasonableness of answers to arithmetic calculations <b>(EMA03)</b></li> <li>• use a calculator for multi-step calculations <b>(EMA05)</b></li> <li>• calculate a percentage of a given amount <b>(EMA11)</b></li> </ul>
Essential Mathematics (M course)	<b>Unit 1 - Topic 1: Calculations, percentages and rates</b> <ul style="list-style-type: none"> <li>• use basic number operations <b>(EMM01)</b></li> <li>• ascertain the reasonableness of answers to arithmetic calculations <b>(EMM03)</b></li> <li>• use a calculator for multi-step calculations <b>(EMM04)</b></li> <li>• calculate a percentage of a given amount <b>(EMM08)</b></li> </ul>
Mathematical Applications (T Course)	<b>Unit 1 - Topic 1: Consumer arithmetic</b> <ul style="list-style-type: none"> <li>• review rates and percentages <b>(MAT01)</b></li> </ul>
Contemporary Mathematics (A Course)	<b>Unit 1 - Elective 1: Income and Payroll Maths</b> <ul style="list-style-type: none"> <li>• interprets and comprehends a range of everyday mathematical information that is embedded in familiar and routine texts <b>(CMA01)</b></li> <li>• interprets and comprehends: <b>(CMA02)</b> <ul style="list-style-type: none"> <li>○ whole numbers and familiar or routine fractions, decimals and percentages <b>(CMA03)</b></li> </ul> </li> <li>• uses calculator/technological processes and tools to undertake the problem solving process <b>(CMA09)</b></li> <li>• uses and applies order of arithmetical operations to solve multi-step calculations <b>(CMA12)</b></li> </ul>
Contemporary Mathematics (M Course)	<b>Unit 1 - Elective 1: Income and Payroll Maths</b> <ul style="list-style-type: none"> <li>• identifies and interprets simple mathematical information in familiar and simple oral instructions and written texts where the mathematics is partially embedded <b>(CMM01)</b></li> <li>• identifies and interprets: <b>(CMM02)</b> <ul style="list-style-type: none"> <li>○ whole numbers and simple fractions, decimals and percentages <b>(CMM03)</b></li> </ul> </li> <li>• uses calculator/technological processes and tools to undertake the problem solving process <b>(CMM09)</b></li> <li>• uses and applies order of arithmetical operations to perform a limited range of calculations <b>(CMM12)</b></li> </ul>

Your Tax - Activity 3: Completing your tax return	
Contemporary Mathematics (A Course)	<b>Unit 1 - Elective 1: Income and Payroll Maths</b> interprets and comprehends a range of everyday mathematical information that is embedded in familiar and routine texts <b>(CMA01)</b>
Contemporary Mathematics (M Course)	<b>Unit 1 - Elective 1: Income and Payroll Maths</b> <ul style="list-style-type: none"> <li>• identifies and interprets simple mathematical information in familiar and simple oral instructions and written texts where the mathematics is partially embedded <b>(CMM01)</b></li> </ul>

Your Tax - Activity 4: Calculating tax due	
<b>Essential Mathematics (A course)</b>	<b>Unit 1 - Topic 1: Calculations, percentages and rates</b> <ul style="list-style-type: none"> <li>• solve practical problems requiring basic number operations <b>(EMA01)</b></li> <li>• use a calculator for multi-step calculations <b>(EMA05)</b></li> <li>• calculate a percentage of a given amount <b>(EMA11) (EMA11)</b></li> </ul>
<b>Essential Mathematics (M course)</b>	<b>Unit 1 - Topic 1: Calculations, percentages and rates</b> <ul style="list-style-type: none"> <li>• use basic number operations <b>(EMM01)</b></li> <li>• use a calculator for multi-step calculations <b>(EMM04)</b></li> <li>• calculate a percentage of a given amount <b>(EMM08)</b></li> </ul>
<b>Mathematical Applications (T Course)</b>	<b>Unit 1 - Topic 1: Consumer arithmetic</b> <ul style="list-style-type: none"> <li>• review rates and percentages <b>(MAT01)</b></li> </ul>
<b>Contemporary Mathematics (A Course)</b>	<b>Unit 1- Elective 1: Income and Payroll Maths</b> <ul style="list-style-type: none"> <li>• interprets and comprehends a range of everyday mathematical information that is embedded in familiar and routine texts <b>(CMA01)</b></li> <li>• interprets and comprehends: <b>(CMA02)</b> <ul style="list-style-type: none"> <li>○ whole numbers and familiar or routine fractions, decimals and percentages <b>(CMA03)</b></li> </ul> </li> <li>• uses calculator/technological processes and tools to undertake the problem solving process <b>(CMA09)</b></li> <li>• uses and applies order of arithmetical operations to solve multi-step calculations <b>(CMA12)</b></li> </ul>
<b>Contemporary Mathematics (M Course)</b>	<b>Unit 1- Elective 1: Income and Payroll Maths</b> <ul style="list-style-type: none"> <li>• identifies and interprets simple mathematical information in familiar and simple oral instructions and written texts where the mathematics is partially embedded <b>(CMM01)</b></li> <li>• identifies and interprets: <b>(CMM02)</b> <ul style="list-style-type: none"> <li>○ whole numbers and simple fractions, decimals and percentages <b>(CMM03)</b></li> </ul> </li> <li>• uses calculator/technological processes and tools to undertake the problem solving process <b>(CMM09)</b></li> <li>• uses and applies order of arithmetical operations to perform a limited range of calculations <b>(CMM12)</b></li> </ul>

**Your Tax - Activity 5: What other taxes do I have to pay?  
Years 11-12 Task**

<p><b>Essential Mathematics (A course)</b></p>	<p><b>Unit 1 - Topic 1: Calculations, percentages and rates</b></p> <ul style="list-style-type: none"> <li>• calculate a percentage of a given amount <b>(EMA11)</b></li> <li>• determine one amount expressed as a percentage of another <b>(EMA12)</b></li> <li>• apply percentage increases and decreases in situations; for example, mark-ups, discounts and GST. <b>(EMA13)</b></li> </ul> <p><b>Unit 2- Topic 1: Representing and comparing data</b></p> <ul style="list-style-type: none"> <li>• calculate measures of central tendency, the arithmetic mean and the median <b>(EMA08)</b></li> </ul> <p><b>Topic 2: Percentages</b></p> <ul style="list-style-type: none"> <li>• calculate simple interest for different rates and periods <b>(EMA22)</b> calculate a percentage of a given amount <b>(EMA11) (EMA11)</b></li> </ul>
<p><b>Essential Mathematics (M course)</b></p>	<p><b>Unit 1 - Topic 1: Calculations, percentages and rates</b></p> <ul style="list-style-type: none"> <li>• calculate a percentage of a given amount <b>(EMM08)</b></li> <li>• apply percentage increases and decreases; for example, mark-ups, discounts and GST <b>(EMM09)</b></li> </ul> <p><b>Unit 2- Topic 1: Representing and comparing data</b></p> <ul style="list-style-type: none"> <li>• find measures of central tendency, the arithmetic mean and the median <b>(EMM08)</b></li> </ul> <p><b>Topic 2: Percentages</b></p> <ul style="list-style-type: none"> <li>• calculate simple interest for periods in years only <b>(EMM19)</b></li> </ul>
<p><b>Mathematical Applications (T Course)</b></p>	<p><b>Unit 1 - Topic 1: Consumer arithmetic</b></p> <ul style="list-style-type: none"> <li>• apply percentage increase or decrease in various contexts; for example, determining the impact of inflation on costs and wages over time, calculating percentage mark-ups and discounts, calculating GST, calculating profit or loss in absolute and percentage terms, and calculating simple and compound interest <b>(MAT06)</b></li> </ul>
<p><b>Contemporary Mathematics (A Course)</b></p>	<p><b>Unit 1 - Elective 1: Income and Payroll Maths</b></p> <ul style="list-style-type: none"> <li>• interprets and comprehends a range of everyday mathematical information that is embedded in familiar and routine texts <b>(CMA01)</b></li> <li>• interprets and comprehends: <b>(CMA02)</b> <ul style="list-style-type: none"> <li>○ whole numbers and familiar or routine fractions, decimals and percentages <b>(CMA03)</b></li> </ul> </li> <li>• uses calculator/technological processes and tools to undertake the problem solving process <b>(CMA09)</b></li> <li>• uses and applies order of arithmetical operations to solve multi-step calculations <b>(CMA12)</b></li> </ul>
<p><b>Contemporary Mathematics (M Course)</b></p>	<p><b>Unit 1 - Elective 1: Income and Payroll Maths</b></p> <ul style="list-style-type: none"> <li>• identifies and interprets simple mathematical information in familiar and simple oral instructions and written texts where the mathematics is partially embedded <b>(CMM01)</b></li> <li>• identifies and interprets: <b>(CMM02)</b> <ul style="list-style-type: none"> <li>○ whole numbers and simple fractions, decimals and percentages <b>(CMM03)</b></li> </ul> </li> <li>• uses calculator/technological processes and tools to undertake the problem solving process <b>(CMM09)</b></li> <li>• uses and applies order of arithmetical operations to perform a limited range of calculations <b>(CMM12)</b></li> </ul>

**Your Tax - Activity 6: Fixing a tax problem**

<b>Essential Mathematics (A course)</b>	<b>Topic 2: Percentages</b> <ul style="list-style-type: none"><li>calculate simple interest for different rates and periods <b>(EMA22)</b></li></ul>
<b>Essential Mathematics (M course)</b>	<b>Topic 2: Percentages</b> <ul style="list-style-type: none"><li>calculate simple interest for periods in years only <b>(EMM19)</b></li></ul>
<b>Contemporary Mathematics (A Course)</b>	<b>Unit 1 - Elective 1: Income and Payroll Maths</b> <ul style="list-style-type: none"><li>interprets and comprehends a range of everyday mathematical information that is embedded in familiar and routine texts <b>(CMA01)</b></li></ul>
<b>Contemporary Mathematics (M Course)</b>	<b>Unit 1 - Elective 1: Income and Payroll Maths</b> <ul style="list-style-type: none"><li>identifies and interprets simple mathematical information in familiar and simple oral instructions and written texts where the mathematics is partially embedded <b>(CMM01)</b></li></ul>

# BUSINESS TAX

## ACT Senior Curriculum Mathematics

### Business Tax - Activity 2: Business structures

<b>Essential Mathematics (A course)</b>	<b>Unit 1 - Topic 1: Calculations, percentages and rates</b> <ul style="list-style-type: none"> <li>• solve practical problems requiring basic number operations <b>(EMA01)</b></li> <li>• ascertain the reasonableness of answers to arithmetic calculations <b>(EMA03)</b></li> <li>• use a calculator for multi-step calculations <b>(EMA05)</b></li> <li>• calculate a percentage of a given amount <b>(EMA11)</b></li> </ul>
<b>Essential Mathematics (M course)</b>	<b>Unit 1 - Topic 1: Calculations, percentages and rates</b> <ul style="list-style-type: none"> <li>• use basic number operations <b>(EMM01)</b></li> <li>• ascertain the reasonableness of answers to arithmetic calculations <b>(EMM03)</b></li> <li>• use a calculator for multi-step calculations <b>(EMM04)</b></li> <li>• calculate a percentage of a given amount <b>(EMM08)</b></li> </ul>

### Business Tax - Activity 4: Explaining business taxes

<b>Essential Mathematics (A course)</b>	<b>Unit 1 - Topic 1: Calculations, percentages and rates</b> <ul style="list-style-type: none"> <li>• determine one amount expressed as a percentage of another <b>(EMA12)</b></li> <li>• apply percentage increases and decreases in situations; for example, mark-ups, discounts and GST. <b>(EMA13)</b></li> </ul> <b>Topic 4: Graphs</b> <ul style="list-style-type: none"> <li>• interpret information presented in graphs, such as conversion graphs, line graphs, step graphs, column graphs and picture graphs <b>(EMA36)</b></li> <li>• interpret information presented in two-way tables <b>(EMA37)</b></li> <li>• use spreadsheets to tabulate and graph data <b>(EMA40)</b></li> </ul>
<b>Essential Mathematics (M course)</b>	<b>Unit 1 - Topic 1: Calculations, percentages and rates</b> <ul style="list-style-type: none"> <li>• calculate a percentage of a given amount <b>(EMM08)</b></li> <li>• apply percentage increases and decreases; for example, mark-ups, discounts and GST <b>(EMM09)</b></li> </ul> <b>Topic 4: Graphs</b> <ul style="list-style-type: none"> <li>• use information presented in graphs, for example conversion graphs, line graphs, step graphs, column graphs and picture graphs <b>(EMM30)</b></li> <li>• use spreadsheets to make tables and graphs of data <b>(EMM33)</b></li> </ul>
<b>Mathematical Applications (T Course)</b>	<b>Unit 1 - Topic 1: Consumer arithmetic</b> <ul style="list-style-type: none"> <li>• review rates and percentages <b>(MAT01)</b></li> <li>• apply percentage increase or decrease in various contexts; for example, determining the impact of inflation on costs and wages over time, calculating percentage mark-ups and discounts, calculating GST, calculating profit or loss in absolute and percentage terms, and calculating simple and compound interest <b>(MAT06)</b></li> </ul>



**Business Tax - Activity 5: The goods and services tax (GST)**

<b>Essential Mathematics (A course)</b>	<b>Unit 1 - Topic 1: Calculations, percentages and rates</b> <ul style="list-style-type: none"><li>• solve practical problems requiring basic number operations <b>(EMA01)</b></li><li>• ascertain the reasonableness of answers to arithmetic calculations <b>(EMA03)</b></li><li>• use a calculator for multi-step calculations <b>(EMA05)</b></li><li>• determine one amount expressed as a percentage of another <b>(EMA12)</b></li><li>• calculate a percentage of a given amount <b>(EMA11)</b><ul style="list-style-type: none"><li>○ apply percentage increases and decreases in situations; for example, mark-ups, discounts and GST. <b>(EMA13)</b></li></ul></li></ul>
<b>Essential Mathematics (M course)</b>	<b>Unit 1 - Topic 1: Calculations, percentages and rates</b> <ul style="list-style-type: none"><li>• use basic number operations <b>(EMM01)</b></li><li>• ascertain the reasonableness of answers to arithmetic calculations <b>(EMM03)</b></li><li>• use a calculator for multi-step calculations <b>(EMM04)</b></li><li>• calculate a percentage of a given amount <b>(EMM08)</b></li><li>• apply percentage increases and decreases; for example, mark-ups, discounts and GST <b>(EMM09)</b></li></ul>
<b>Mathematical Applications (T Course)</b>	<b>Unit 1 - Topic 1: Consumer arithmetic</b> <ul style="list-style-type: none"><li>• apply percentage increase or decrease in various contexts; for example, determining the impact of inflation on costs and wages over time, calculating percentage mark-ups and discounts, calculating GST, calculating profit or loss in absolute and percentage terms, and calculating simple and compound interest <b>(MAT06)</b></li></ul>
<b>Contemporary Mathematics (A Course)</b>	<b>Unit 1 - Elective 2: Workplace problem solving</b> <b>Elective 3: Mathematics for Industry and VET</b> <ul style="list-style-type: none"><li>• interprets and comprehends: <b>(CMA02)</b><ul style="list-style-type: none"><li>○ whole numbers and familiar or routine fractions, decimals and percentages <b>(CMA03)</b></li></ul></li><li>• uses calculator/technological processes and tools to undertake the problem solving process <b>(CMA09)</b></li></ul>
<b>Contemporary Mathematics (M Course)</b>	<b>Unit 1 - Elective 2: Workplace problem solving</b> <b>Elective 3: Mathematics for Industry and VET</b> <ul style="list-style-type: none"><li>• identifies and interprets: <b>(CMM02)</b><ul style="list-style-type: none"><li>○ whole numbers and simple fractions, decimals and percentages <b>(CMM03)</b></li></ul></li><li>• uses calculator/technological processes and tools to undertake the problem solving process <b>(CMM09)</b></li></ul>

**Business Tax - Activity 5: What other taxes do I have to pay?****Years 11-12 Task**

<b>Essential Mathematics (A course)</b>	<p><b>Unit 1 - Topic 1: Calculations, percentages and rates</b></p> <ul style="list-style-type: none"> <li>• solve practical problems requiring basic number operations <b>(EMA01)</b></li> <li>• ascertain the reasonableness of answers to arithmetic calculations <b>(EMA03)</b></li> <li>• use a calculator for multi-step calculations <b>(EMA05)</b></li> <li>• calculate a percentage of a given amount <b>(EMA11)</b></li> <li>• determine one amount expressed as a percentage of another <b>(EMA12)</b></li> <li>• apply percentage increases and decreases in situations; for example, mark-ups, discounts and GST. <b>(EMA13)</b></li> </ul> <p><b>Topic 2: Measurement</b></p> <ul style="list-style-type: none"> <li>• use formulas to calculate areas of regular shapes, including triangles, squares, rectangles, parallelograms, trapeziums, circles and sectors <b>(EMA04)</b></li> </ul>
<b>Essential Mathematics (M course)</b>	<p><b>Unit 1 - Topic 1: Calculations, percentages and rates</b></p> <ul style="list-style-type: none"> <li>• use basic number operations <b>(EMM01)</b></li> <li>• ascertain the reasonableness of answers to arithmetic calculations <b>(EMM03)</b></li> <li>• use a calculator for multi-step calculations <b>(EMM04)</b></li> <li>• calculate a percentage of a given amount <b>(EMM08)</b></li> <li>• apply percentage increases and decreases; for example, mark-ups, discounts and GST <b>(EMM09)</b></li> </ul> <p><b>Topic 2: Measurement</b></p> <ul style="list-style-type: none"> <li>• calculate areas of regular shapes; for example, triangles, squares, rectangles, parallelograms, trapeziums, circles <b>(EMM04)</b></li> </ul>
<b>Mathematical Applications (T Course)</b>	<p><b>Unit 1 - Topic 1: Consumer arithmetic</b></p> <p>apply percentage increase or decrease in various contexts; for example, determining the impact of inflation on costs and wages over time, calculating percentage mark-ups and discounts, calculating GST, calculating profit or loss in absolute and percentage terms, and calculating simple and compound interest <b>(MAT06)</b></p>
<b>Contemporary Mathematics (A Course)</b>	<p><b>Unit 1 - Elective 2: Workplace problem solving</b></p> <p><b>Elective 3: Mathematics for Industry and VET</b></p> <ul style="list-style-type: none"> <li>• interprets and comprehends: <b>(CMA02)</b> <ul style="list-style-type: none"> <li>○ whole numbers and familiar or routine fractions, decimals and percentages <b>(CMA03)</b></li> <li>○ familiar and routine measurement (for example, dates and time, including 24 hour times, 2D and 3D shapes, including pyramids and cylinders, length, mass, volume/capacity, temperature and simple area measures, maps and plans <b>(CMA04)</b></li> </ul> </li> <li>• uses calculator/technological processes and tools to undertake the problem solving process <b>(CMA09)</b></li> <li>• perform measurements, estimates and calculations using for example, 2D and 3D shapes, constructing common 3D shapes, length, perimeter, mass, capacity/volume, time, temperature and simple area (for rectangular areas only, using <math>A = L \times W</math>, or estimates area of a non-rectangular shape by counting squares), distance, direction, coordinates, simple scales, labels, symbols and keys to read and use everyday maps and plans <b>(CMA14)</b></li> </ul>

**(continued from previous page) Business Tax - Activity 5: What other taxes do I have to pay?  
Years 11-12 Task**

**Contemporary  
Mathematics  
(M Course)**

**Unit 1 - Elective 2: Workplace problem solving  
Elective 3: Mathematics for Industry and VET**

- identifies and interprets: **(CMM02)**
- whole numbers and simple fractions, decimals and percentages **(CMM03)**
- familiar and simple measurement (for example, dates and time, including 24 hour times, 2D and 3D shapes, including pyramids and cylinders, length, mass, volume/capacity, temperature and simple area measures, maps and plans **(CMM04)**
- select appropriate methods of solution from a limited range of mathematical processes **(CMM06)**
- uses calculator/technological processes and tools to undertake the problem solving process **(CMM09)**
- identifies and uses whole numbers and everyday or simple fractions, decimals and percentages, and where appropriate converting between equivalent forms (includes dividing by small whole numbers only, with division by decimal values and long division worked out on a calculator; calculations with simple fractions to be multiplication of whole number values only, e.g. 20% or 1/5 of \$250 **(CMM11)**
- perform simple measurements, estimates and calculations using for example, 2D and 3D shapes, constructing some common 3D shapes, length, perimeter, mass, capacity/volume, time, temperature and simple area (for rectangular areas only, using  $A = L \times W$ , or estimates area of a non-rectangular shape by counting squares), distance, direction, coordinates, simple scales, labels, symbols and keys to read familiar everyday maps and plans **(CMM13)**

Super - Activity 1: What is superannuation?	
Essential Mathematics (A course)	<b>Unit 1 - Topic 4: Graphs</b> <ul style="list-style-type: none"> <li>interpret information presented in graphs, such as conversion graphs, line graphs, step graphs, column graphs and picture graphs <b>(EMA36)</b></li> <li>interpret information presented in two-way tables <b>(EMA37)</b></li> </ul>
Essential Mathematics (M course)	<b>Unit 1 - Topic 4: Graphs</b> <ul style="list-style-type: none"> <li>use information presented in graphs, for example conversion graphs, line graphs, step graphs, column graphs and picture graphs <b>(EMM30)</b></li> </ul>
Mathematical Applications (T Course)	<b>Unit 1 - Topic 4: Graphs</b> <ul style="list-style-type: none"> <li>use information presented in graphs, for example conversion graphs, line graphs, step graphs, column graphs and picture graphs <b>(EMM30)</b></li> </ul>
Contemporary Mathematics (A Course)	<b>Unit 2 - Elective 3 Negotiated study (superannuation)</b> <ul style="list-style-type: none"> <li>interprets and comprehends a range of everyday mathematical information that is embedded in familiar and routine texts <b>(CMA01)</b></li> </ul>
Contemporary Mathematics (M Course)	<b>Unit 2 - Elective 3 Negotiated study (superannuation)</b> <ul style="list-style-type: none"> <li>interprets and comprehends a range of everyday mathematical information that is embedded in familiar and routine texts <b>(CMA01)</b></li> </ul>

**Super - Activity 2: Where does super money come from?**

<p><b>Essential Mathematics (A course)</b></p>	<p><b>Unit 1 - Topic 1: Calculations, percentages and rates</b></p> <ul style="list-style-type: none"> <li>• solve practical problems requiring basic number operations <b>(EMA01)</b></li> <li>• ascertain the reasonableness of answers to arithmetic calculations <b>(EMA03)</b></li> <li>• use a calculator for multi-step calculations <b>(EMA05)</b></li> <li>• calculate a percentage of a given amount <b>(EMA11)</b></li> </ul>
<p><b>Essential Mathematics (M course)</b></p>	<p><b>Unit 1 - Topic 1: Calculations, percentages and rates</b></p> <ul style="list-style-type: none"> <li>• solve practical problems requiring basic number operations <b>(EMA01)</b></li> <li>• ascertain the reasonableness of answers to arithmetic calculations <b>(EMA03)</b></li> <li>• use a calculator for multi-step calculations <b>(EMA05)</b></li> <li>• calculate a percentage of a given amount <b>(EMA11)</b></li> </ul>
<p><b>Mathematical Applications (T Course)</b></p>	<p><b>Unit 1 - Topic 1: Calculations, percentages and rates</b></p> <ul style="list-style-type: none"> <li>• solve practical problems requiring basic number operations <b>(EMA01)</b></li> <li>• ascertain the reasonableness of answers to arithmetic calculations <b>(EMA03)</b></li> <li>• use a calculator for multi-step calculations <b>(EMA05)</b></li> <li>• calculate a percentage of a given amount <b>(EMA11)</b></li> </ul>
<p><b>Contemporary Mathematics (A Course)</b></p>	<p><b>Unit 1- Elective 1: Income and Payroll Maths</b></p> <p><b>Unit 2- Elective 3: Negotiated study (superannuation)</b></p> <ul style="list-style-type: none"> <li>• interprets and comprehends: <b>(CMA02)</b> <ul style="list-style-type: none"> <li>○ whole numbers and familiar or routine fractions, decimals and percentages <b>(CMA03)</b></li> </ul> </li> </ul>
<p><b>Contemporary Mathematics (M Course)</b></p>	<p><b>Unit 1- Elective 1: Income and Payroll Maths</b></p> <p><b>Unit 2- Elective 3: Negotiated study (superannuation)</b></p> <ul style="list-style-type: none"> <li>• interprets and comprehends: <b>(CMA02)</b> <ul style="list-style-type: none"> <li>○ whole numbers and familiar or routine fractions, decimals and percentages <b>(CMA03)</b></li> </ul> </li> </ul>

**Super - Activity 3: What do I need to do about super?**

<p><b>Essential Mathematics (A course)</b></p>	<p><b>Unit 1 - Topic 1: Calculations, percentages and rates</b></p> <ul style="list-style-type: none"> <li>• solve practical problems requiring basic number operations <b>(EMA01)</b></li> <li>• use a calculator for multi-step calculations <b>(EMA05)</b></li> <li>• calculate a percentage of a given amount <b>(EMA11)</b></li> </ul> <p><b>Topic 3: Algebra</b></p> <ul style="list-style-type: none"> <li>• substitute given values for the other pronumerals in a mathematical formula to find the value of the subject of the formula <b>(EMA35)</b></li> </ul> <p><b>Unit 2- Topic 2: Percentages</b></p> <ul style="list-style-type: none"> <li>• calculate simple interest for different rates and periods <b>(EMA22)</b></li> </ul>
<p><b>Essential Mathematics (M course)</b></p>	<p><b>Unit 1 - Topic 1: Calculations, percentages and rates</b></p> <ul style="list-style-type: none"> <li>• solve practical problems requiring basic number operations <b>(EMA01)</b></li> <li>• use a calculator for multi-step calculations <b>(EMA05)</b></li> <li>• calculate a percentage of a given amount <b>(EMA11)</b></li> </ul> <p><b>Topic 3: Algebra</b></p> <ul style="list-style-type: none"> <li>• substitute given values for the other pronumerals in a mathematical formula to find the value of the subject of the formula <b>(EMA35)</b></li> </ul> <p><b>Unit 2- Topic 2: Percentages</b></p> <ul style="list-style-type: none"> <li>• calculate simple interest for different rates and periods <b>(EMA22)</b></li> </ul>
<p><b>Mathematical Applications (T Course)</b></p>	<p><b>Unit 1 - Topic 1: Calculations, percentages and rates</b></p> <ul style="list-style-type: none"> <li>• solve practical problems requiring basic number operations <b>(EMA01)</b></li> <li>• use a calculator for multi-step calculations <b>(EMA05)</b></li> <li>• calculate a percentage of a given amount <b>(EMA11)</b></li> </ul> <p><b>Topic 3: Algebra</b></p> <ul style="list-style-type: none"> <li>• substitute given values for the other pronumerals in a mathematical formula to find the value of the subject of the formula <b>(EMA35)</b></li> </ul> <p><b>Unit 2- Topic 2: Percentages</b></p> <ul style="list-style-type: none"> <li>• calculate simple interest for different rates and periods <b>(EMA22)</b></li> </ul>
<p><b>Contemporary Mathematics (A Course)</b></p>	<p><b>Unit 1 - Elective 1: Income and Payroll Maths</b></p> <p><b>Unit 2 - Elective 3 Negotiated study (superannuation)</b></p> <ul style="list-style-type: none"> <li>• interprets and comprehends: <b>(CMA02)</b> <ul style="list-style-type: none"> <li>○ whole numbers and familiar or routine fractions, decimals and percentages <b>(CMA03)</b></li> </ul> </li> <li>• uses calculator/technological processes and tools to undertake the problem solving process <b>(CMA09)</b></li> </ul>
<p><b>Contemporary Mathematics (M Course)</b></p>	<p><b>Unit 1 - Elective 1: Income and Payroll Maths</b></p> <p><b>Unit 2 - Elective 3 Negotiated study (superannuation)</b></p> <ul style="list-style-type: none"> <li>• interprets and comprehends: <b>(CMA02)</b> <ul style="list-style-type: none"> <li>○ whole numbers and familiar or routine fractions, decimals and percentages <b>(CMA03)</b></li> </ul> </li> <li>• uses calculator/technological processes and tools to undertake the problem solving process <b>(CMA09)</b></li> </ul>

**Super - Activity 3: What do I need to do about super?**  
Years 11-12 Task

<b>Essential Mathematics (A course)</b>	<b>Unit 1 - Topic 1: Calculations, percentages and rates</b> <ul style="list-style-type: none"> <li>• solve practical problems requiring basic number operations <b>(EMA01)</b></li> <li>• calculate a percentage of a given amount <b>(EMA11)</b></li> </ul>
<b>Essential Mathematics (M course)</b>	<b>Unit 1 - Topic 1: Calculations, percentages and rates</b> <ul style="list-style-type: none"> <li>• solve practical problems requiring basic number operations <b>(EMA01)</b></li> <li>• calculate a percentage of a given amount <b>(EMA11)</b></li> </ul>
<b>Mathematical Applications (T Course)</b>	<b>Unit 1 - Topic 1: Calculations, percentages and rates</b> <ul style="list-style-type: none"> <li>• solve practical problems requiring basic number operations <b>(EMA01)</b></li> <li>• calculate a percentage of a given amount <b>(EMA11)</b></li> </ul>

**Super - Activity 4: How do I choose a super fund?**

<b>Essential Mathematics (A course)</b>	<b>Unit 1 - Topic 4: Graphs</b> <ul style="list-style-type: none"> <li>• interpret information presented in two-way tables <b>(EMA37)</b></li> </ul>
<b>Contemporary Mathematics (A Course)</b>	<b>Unit 2 - Elective 2: Banking and financial planning</b> <b>Elective 3: Negotiated study (superannuation)</b> <ul style="list-style-type: none"> <li>• interprets and comprehends a range of everyday mathematical information that is embedded in familiar and routine texts <b>(CMA01)</b></li> </ul>
<b>Contemporary Mathematics (M Course)</b>	<b>Unit 2 - Elective 2: Banking and financial planning</b> <b>Elective 3: Negotiated study (superannuation)</b> <ul style="list-style-type: none"> <li>• interprets and comprehends a range of everyday mathematical information that is embedded in familiar and routine texts <b>(CMA01)</b></li> </ul>

**Super - Activity 4: How do I choose a super fund?**  
Years 11-12 Task

<b>Essential Mathematics (A course)</b>	<b>Unit 1 - Topic 1: Calculations, percentages and rates</b> <b>Topic 3: Algebra</b> <ul style="list-style-type: none"> <li>• substitute given values for the other pronumerals in a mathematical formula to find the value of the subject of the formula <b>(EMA35)</b></li> </ul> <b>Topic 4: Graphs</b> <ul style="list-style-type: none"> <li>• interpret information presented in graphs, such as conversion graphs, line graphs, step graphs, column graphs and picture graphs <b>(EMA36)</b></li> <li>• draw a line graph to represent any data that demonstrate a continuous change, such as hourly temperature <b>(EMA41)</b></li> </ul> <b>Unit 2 - Topic 1: Representing and comparing data</b> <ul style="list-style-type: none"> <li>• calculate measures of central tendency, the arithmetic mean and the median <b>(EMA08)</b></li> </ul> <b>Unit 4 - Topic 3: Loans and compound interest</b> <ul style="list-style-type: none"> <li>• use technology to calculate the future value of a compound interest loan or investment and the total interest paid or earned <b>(EMA24)</b></li> </ul>
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(continued from previous page) Super - Activity 4: How do I choose a super fund?  
Years 11-12 Task

<p><b>Essential Mathematics (M course)</b></p>	<p><b>Unit 1 - Topic 1: Calculations, percentages and rates</b>  <b>Topic 3: Algebra</b></p> <ul style="list-style-type: none"> <li>substitute given values for the other pronumerals in a mathematical formula to find the value of the subject of the formula <b>(EMA35)</b></li> </ul> <p><b>Topic 4: Graphs</b></p> <ul style="list-style-type: none"> <li>interpret information presented in graphs, such as conversion graphs, line graphs, step graphs, column graphs and picture graphs <b>(EMA36)</b></li> <li>draw a line graph to represent any data that demonstrate a continuous change, such as hourly temperature <b>(EMA41)</b></li> </ul> <p><b>Unit 2 - Topic 1: Representing and comparing data</b></p> <ul style="list-style-type: none"> <li>calculate measures of central tendency, the arithmetic mean and the median <b>(EMA08)</b></li> </ul> <p><b>Unit 4 - Topic 3: Loans and compound interest</b></p> <ul style="list-style-type: none"> <li>use technology to calculate the future value of a compound interest loan or investment and the total interest paid or earned <b>(EMA24)</b></li> </ul>
<p><b>Mathematical Applications (T Course)</b></p>	<p><b>Unit 1 - Topic 1: Calculations, percentages and rates</b>  <b>Topic 3: Algebra</b></p> <ul style="list-style-type: none"> <li>substitute given values for the other pronumerals in a mathematical formula to find the value of the subject of the formula <b>(EMA35)</b></li> </ul> <p><b>Topic 4: Graphs</b></p> <ul style="list-style-type: none"> <li>interpret information presented in graphs, such as conversion graphs, line graphs, step graphs, column graphs and picture graphs <b>(EMA36)</b></li> <li>draw a line graph to represent any data that demonstrate a continuous change, such as hourly temperature <b>(EMA41)</b></li> </ul> <p><b>Unit 2 - Topic 1: Representing and comparing data</b></p> <ul style="list-style-type: none"> <li>calculate measures of central tendency, the arithmetic mean and the median <b>(EMA08)</b></li> </ul> <p><b>Unit 4 - Topic 3: Loans and compound interest</b></p> <ul style="list-style-type: none"> <li>use technology to calculate the future value of a compound interest loan or investment and the total interest paid or earned <b>(EMA24)</b></li> </ul>
<p><b>Mathematical Methods (T Course)</b></p>	<p><b>Unit 1 - Topic 1: Calculations, percentages and rates</b>  <b>Topic 3: Algebra</b></p> <ul style="list-style-type: none"> <li>substitute given values for the other pronumerals in a mathematical formula to find the value of the subject of the formula <b>(EMA35)</b></li> </ul> <p><b>Topic 4: Graphs</b></p> <ul style="list-style-type: none"> <li>interpret information presented in graphs, such as conversion graphs, line graphs, step graphs, column graphs and picture graphs <b>(EMA36)</b></li> <li>draw a line graph to represent any data that demonstrate a continuous change, such as hourly temperature <b>(EMA41)</b></li> </ul> <p><b>Unit 2 - Topic 1: Representing and comparing data</b></p> <ul style="list-style-type: none"> <li>calculate measures of central tendency, the arithmetic mean and the median <b>(EMA08)</b></li> </ul> <p><b>Unit 4 - Topic 3: Loans and compound interest</b></p> <ul style="list-style-type: none"> <li>use technology to calculate the future value of a compound interest loan or investment and the total interest paid or earned <b>(EMA24)</b></li> </ul>