Course Description
This mathematics course aims to promote a positive attitude to mathematics and its relevance as well as a sound understanding of mathematical processes. Topics covered include: indices; mental computations using the four basic operations; rational and irrational numbers; rates, ratios and percentages; perimeter, area and volume; unit conversions; circles; and time measurement.

Learning Outcomes
Ability to recognise index laws and apply them to whole numbers
Able to use mental and written strategies to carry out the four operations with integers
Recognition and description of rational and irrational numbers
Solve problems involving profit and loss
Solve everyday problems involving rates, ratios and percentages
Solve problems relating to the volume of prisms
Ability to perform calculations to determine perimeter and area of quadrilaterals
Convert between units of measurement for area and volume
Describe the features of a circle and calculate the area and circumference of circles
Able to make sense of time duration in real applications
Demonstrates an understanding of literacy in mathematics

Work Practice Outcomes
Cooperates with teacher and other students
Exhibits a self-disciplined approach to work
Completes set homework
Completes set class work

Materials Required
Calculator, writing materials (pens, pencils etc), ruler, eraser and an exercise book

Typical Homework
Homework will be set on: <www.mymathsonline.com.au>
All students will have their own unique logon and password to access specific tasks. Students who have difficulty accessing the internet may use the computers in the library, or attend tutorials every Thursday at long break. Homework may also include topic investigations as well as completion and revision of classwork.

Assessment Items

<table>
<thead>
<tr>
<th>Assessment Items</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>In Class Assessment</td>
<td>Week 4</td>
</tr>
<tr>
<td>Common Test</td>
<td>Week 10</td>
</tr>
<tr>
<td>Common Test</td>
<td>Week 17</td>
</tr>
<tr>
<td>In Class Assessment</td>
<td>Week 20</td>
</tr>
<tr>
<td>Bookwork/Homework</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Spelling</td>
<td>Ongoing</td>
</tr>
</tbody>
</table>