### MOSSMAN STATE HIGH SCHOOL
#### Term 4, 2017 – Course Outline
#### Year 7 Maths MAT071B – Miss Gardiner

<table>
<thead>
<tr>
<th>Unit Name</th>
<th>Main Ideas</th>
<th>Duration (weeks)</th>
<th>Assessment Item</th>
<th>Due Date</th>
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</thead>
<tbody>
<tr>
<td><strong>Unit 7 –</strong> Statistics and Probability</td>
<td>In this unit students apply a variety of mathematical concepts in real-life, lifelike and purely mathematical situations. Through the proficiency strands - Understanding, Fluency, Problem solving and Reasoning - students have opportunities to develop understandings of: Data representation and interpretation - construct stem-and-leaf plots and dot-plots, calculate mean, median, mode and range, compare a range of data displays, describe and interpret data displays using mean, median and range, identify and investigate issues involving numerical data collected from primary and secondary sources.</td>
<td>4 weeks</td>
<td>Assessed at the end of the term (see below assessment item)</td>
<td></td>
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<tr>
<td><strong>Unit 8 –</strong> Measurement and Geometry</td>
<td>In this unit students apply a variety of mathematical concepts in real-life, life-like and purely mathematical situations. Through the proficiency strands - Understanding, Fluency, Problem solving and Reasoning students have opportunities to develop understandings of: Location and transformation: describe and create translations, reflections and rotations on the Cartesian plane, use appropriate conventions for naming transformed shapes, identifying a combination of transformations on the Cartesian plane.</td>
<td>5 weeks</td>
<td>Exam Short answer questions - Basketball scores and geometry</td>
<td>Week 8 Friday 24th November</td>
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</tbody>
</table>

### Literacy Components
- **Speaking and Listening:** Participating in discussions and presenting information and ideas to class and groups
- **Reading & Viewing:** Comprehending texts through reading and viewing
- **Writing & Designing:** Composing texts through writing and creating

### Numeracy Components
- **Number:** calculations involving numerical data
- **Algebra:** create and evaluate formulas
- **Measurement:** angle relationships, geometry conventions, calculating angles. Identify and perform transformations.
- **Space:**
- **Chance & Data:** stem and leaf plots, dot plots, measures of spread and centre

### ICT/Technology Components
- **Select and use ICTs in the processes of inquiry and research:**
- **Select and use ICTs to create a range of responses to suit the purpose and audience:**
- **Select and use ICTs to collaborate and enhance communication for an identified purpose and audience:**
- **Develop and apply ethical, safe and responsible practices when working with ICTs:**
- **Use a range of advanced ICT functions and applications:** Students will be exposed a range of digital applications to access content