## MOSSMAN STATE HIGH SCHOOL

Term 4, 2017 – Course Outline MAT082D – MS ALLERY

<table>
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<tr>
<th>Unit Name</th>
<th>Main Ideas</th>
<th>Duration (weeks)</th>
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| Ratio     | • Writing ratios  
• Simplifying ratios  
• Unit ratio and scale factors  
• Using ratios to find amounts  
• Scale drawings  
• Sharing an amount in a given ratio  
• Rates | 3 weeks | Exam (70 min) | Monday 20th Nov |
| Geometry  | • Interpreting linear graphs  
• Linear relationships  
• Finding the rule (by inspection)  
• Using linear relationships  
• The language of equations  
• Solving linear equations - algebraically & graphically  
• Solving problems  
• Application of geometry | 3 weeks | In class Assignment (2 weeks) | |

### Literacy Components
- Speaking and Listening:
- Reading & Viewing: translate information between different forms
- Writing & Designing: support an argument using mathematics; use mathematical conventions and everyday language to provide solutions to routine and non-routine problems

### Numeracy Components
- Number:
- Algebra:
- Measurement:
- Space:
- Chance & Data:

### 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: