# Kelvin Grove State College

## UNIT & ASSESSMENT OVERVIEW – SEMESTER 1, 2018

**FACULTY:** Mathematics  
**SUBJECT:** Mathematics A

<table>
<thead>
<tr>
<th>UNIT</th>
<th>Resources</th>
<th>ASSESSMENT TASK</th>
<th>DUE DATE</th>
</tr>
</thead>
</table>
| **Unit 1 – Construction** | **Maths Quest Yr 11 Maths A** | **Task 1.2** Assignment | **Handout Task 1.2**  
**Week 3** Starting  
**5th Feb** |
| **Linking Two and Three Dimensions (2 weeks)** |  
- Basics of scale and scale design  
- Draw simple scale drawings, designs and/or plans  
- **Elements of Applied Geometry (1 week)**  
  - Length, Area, Volume and Capacity calculations of regular and compound geometric shapes  
- **Elements of Applied Geometry (1 week)**  
  - Length, Area, Volume and Capacity calculations of regular and compound geometric shapes  
- **Linking Two and Three Dimensions (2 weeks)**  
  - Interpret scale drawing, designs and/or plans | Ex 7, A, B, C | **Draft Date:**  
**Week 5** last lesson  
(week beginning.  
**19 Feb**)**  
**Due Date:**  
**Week 7** last lesson  
(week beg. **5 Mar**)** |
| **Unit 2 – World Travelers** |  
- **Elements of Applied Geometry (2 weeks)**  
  - Define Longitude, Latitude, GMT, UTS (Universal Time Standard), International Date Line.  
  - Identify Major Cities using Longitude and Latitude.  
  - Distances on the Globe  
  - Time Zones | Ex 6, A,B,C | **EXAM BLOCK:**  
**Week 9**  
(week beg. **19 March**)** |
| **Mid-semester break** |  |  | |
| **Unit 1 – World Travelers** |  
- **Navigation 1 (2 week)**  
  - Using maps and charts  
  - Bearings and reverse bearings  
- **Managing Money I (2 weeks)**  
  - Exchange Rates  
  - Credit Cards (Do not do travellers cheques)  
- **Networks 1 (1 week)**  
  - Identify networks – nodes, arcs  
  - Shortest path  
  - Minimal Spanning Tree  
- **Data Collection and Presentation (2 weeks)**  
  - Data and Surveys  
  - Plan, design and construct a survey to gather data  
  - Survey design, question design, data collection and analysis procedures  
  - Understand the pros and cons of different sampling techniques  
- **Exploring and Understanding data (2 weeks)**  
  - Select and use appropriate graphical and tabular displays  
  - Use and interpret various plots of data  
  - Use and understand the measures of central tendency  
  - Use and understand the measure of variance | Yr 12 Maths A  
Ex 5, D,E  
(Worksheet)  
Ex 3E  
Ex 3F worksheet  
Yr 12 Maths A  
Ex 7, A, B, C  
(Supplementary material)  
Ex 9, A, B, C, D | **EXAM BLOCK:**  
**Week 10**  
(week beg. **18 June**)** |

**Assessment Information**  
In cases of student absence on the due date for an assessment task, the college assessment policy will be followed.  
(See Student Diary for more details)