**Maribyrnong Secondary College**
**2014 Transition Program**

**Subject:** Further Maths  
**Year Level (2014):** 12

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**Transition Work/Holiday Homework**

**Details of work to be completed for transition and holidays.**

**Transition Work** – Students are to complete all exercises from chapter 1 and 2 (see list of questions below).

**Holiday Work:** Students need to complete the transition work for the holidays.

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### Chapter 1

**Organising and displaying data**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Exercise</th>
<th>Questions to Complete</th>
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<tbody>
<tr>
<td>Classifying Data</td>
<td>1A</td>
<td>Q1 Q2 Q3 Q4</td>
</tr>
<tr>
<td>Organising &amp; Displaying Categorical Data</td>
<td>1B</td>
<td>Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8</td>
</tr>
<tr>
<td>Organising &amp; Displaying Numerical Data</td>
<td>1C</td>
<td>Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9</td>
</tr>
<tr>
<td>What to look for in a histogram</td>
<td>1D</td>
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<tr>
<td>Stem Plots &amp; Dot Plots</td>
<td>1E</td>
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### Chapter 2

**Summarising Numerical data: median, range, IQR and boxplots**

<table>
<thead>
<tr>
<th>Topic</th>
<th>Exercise</th>
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<tbody>
<tr>
<td>Median, Range &amp; IQR</td>
<td>2A</td>
<td>Q1 Q2 Q3 Q4 Q5 Q6 Q7</td>
</tr>
<tr>
<td>Five Number Summary &amp; the Box Plot</td>
<td>2B</td>
<td>Q1 Q2 Q3 Q4 Q5 Q6</td>
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<tr>
<td>Relating a Box Plot to a Distribution Shape</td>
<td>2C</td>
<td>Q1</td>
</tr>
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<td>Interpreting Box Plots &amp; Distribution</td>
<td>2D</td>
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**Due Date:** Period 1 Term 1, 2014  
**Materials Required:** Copy of chapter 1 and 2  
**Further Maths Course Information Sheet & Holiday Homework Sheet**  
**Bound Reference Guidelines**
FURTHER MATHEMATICS
REQUIREMENTS TO ACHIEVE A SATISFACTORY (S)

Important Information

All students studying Further Mathematics must have:

TI – NSpire CAS Calculator

Further mathematics units 3 and 4 will consist of a compulsory area of study and three modules.
Core – Data Analysis
Module 3 – Graphs and Relations
Module 5 – Networks and Decision Maths
Module 6 – Matrices

Further Maths Outcomes

To satisfactorily pass Further Maths students need to demonstrate three outcomes.

Outcome 1: Define and explain key concepts as specified in the content from the areas of study, and apply a range of related mathematical routines and procedures.

Outcome 2: Apply mathematical processes in non-routine contexts, and analyse and discuss these applications of mathematics.

Outcome 3: Select and use a computer algebra system (TI-NSpire) and other technology to develop mathematical ideas, produce results and carry out analysis in situations requiring problem-solving, modelling or investigative techniques or approaches.

Each outcome is represented in both SACs and classwork so it is important that classwork is completed throughout the course of the year and that your teacher can authenticate your classwork to demonstrate these outcomes.

Students will be required to have their exercises checked and marked off at the end of each section. Each SAC will be graded and given a percentage. Please note that SACs are not returned to students but each student will be informed of their grade and will see their SAC after moderation has occurred.

Note: It is compulsory for all students to bring their TI-NSpire calculators and textbook to every class.
Bound Reference Book Guidelines

Students are allowed to take a bound reference into designated Mathematics examinations. This resource is intended to provide students with access to mathematics-related reference material that may be of assistance during the examination. A suitably qualified member of the school teaching staff will check the appropriateness of reference materials as students enter the examination room for Mathematics examinations where these items are permitted.

Specifications for bound reference
- the bound reference must be in book format of A4 size or smaller when closed
- the number of pages is not specified
- pages must be permanently bound and securely attached to the spine
- there must be a single horizontal or vertical spine.
- the bound reference may be:
  - a textbook
  - a securely bound lecture pad
  - a permanently bound student-constructed set of notes without fold-outs
  - an exercise book
- the form of binding is not specified but it must be secure, and pages must not be readily detachable or designed to be removed. Binding can include cloth, glue, staple, spiral or comb binding.

Students are allowed to:
- annotate the material
- design their own written index
- fold pages
- cut page corners
- colour code pages
- insert dividers into their own sets of notes
- firmly attach (for example, by glue, adhesive tape or staples) additional material to pages in the bound reference
- bound references may be consulted during reading time and throughout the examination

The following is prohibited:
- pages or parts of pages that can be detached from the bound reference during the examination
- fold-outs, maps or brochure-style components
- removable tabs, post-it notes or other pages or material designed to be detached
- forms of collation/binding that are designed to be non-permanent and the content modified by insertion including:
  - ring-binder folders
  - plastic A4 sleeves (permanent or removable) from which pages may be removed
  - manila and similar folders with clip, clamp, slide and metal prong-style binding of loose-leaf material.

**Important**
If any page is detached from the rest of the bound reference, the page will be removed by the supervisor for the duration of the examination and the incident will be reported as a potential breach of rules.
FURTHER MATHEMATICS
Holiday Homework

Instructions
You need to complete all exercises and questions in chapter 1 and 2 (see checklist provided).

Due Date: This homework will be collected during your first lesson of Term 1, 2014
At the start of 2014 (probably your first lesson) you will have a test on chapter 1 and 2 to demonstrate your knowledge and understanding.

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