

# Year 10 Mathematics Foundations 2009

## Timetable:

### Mr Prideaux's class:

| Week A   |          |            |     |            | Week B   |          |     |          |     |
|----------|----------|------------|-----|------------|----------|----------|-----|----------|-----|
| Mon      | Tue      | Wed        | Thu | Fri        | Mon      | Tue      | Wed | Thu      | Fri |
| Period 1 | Period 3 | Period 2.1 |     | Period 4.2 | Period 3 | Period 4 |     | Period 3 |     |

### Mr Weaver's class:

| Week A   |          |            |     |            | Week B   |          |     |     |          |
|----------|----------|------------|-----|------------|----------|----------|-----|-----|----------|
| Mon      | Tue      | Wed        | Thu | Fri        | Mon      | Tue      | Wed | Thu | Fri      |
| Period 3 | Period 2 | Period 2.2 |     | Period 4.1 | Period 2 | Period 2 |     |     | Period 1 |

## Assessment outline:

|             |     |
|-------------|-----|
| Tests       | 40% |
| Assignments | 40% |
| Exams       | 15% |
| Journal     | 5%  |

## Program:

### Term 1

| Week | Learning                               | Resources         | Assessment   |
|------|----------------------------------------|-------------------|--------------|
| 1    | Number: powers and roots               | Text 1.1-1.2      | Test 1       |
| 2, 3 | Number: arithmetic skills              | Text 1.3          | Test 2       |
| 4, 5 | Number: positive and negative integers | Text 1.4          | Assignment 1 |
| 6, 7 | Space: Plane geometry                  | Text 2.1-2.3, 2.5 | Test 3       |
| 7, 8 | 3D Shapes                              | Text 2.6          | Assignment 2 |
| 9    | Algebra                                | Text 3.1          | Assignment 3 |

### Term 2

| Week | Learning                          | Resources     | Assessment   |
|------|-----------------------------------|---------------|--------------|
| 1,2  | Trigonometry: measuring triangles | Text 9.4, 9.6 | Assignment 4 |
| 3,4  | Number: Fractions and decimals    | Text 4.1-4.4  | Test 4       |
| 5    | Algebra: using technology         |               | Assignment 5 |
| 6-8  | Measurement                       | Text 5.1-5.4  | Assignment 6 |
| 9    | Semester 1 Examinations           |               | Exam         |
| 10   | Time                              | Text 5.5      | Test 5       |

## Term 3

| Week | Learning                      | Resources    | Assessment   |
|------|-------------------------------|--------------|--------------|
| 1    | Ratio and Variation           | Text 6.1-6.3 | Test 6       |
| 3-5  | Straight lines                | Text 7.1-7.4 | Assignment 7 |
| 6,7  | Statistics                    | Text 8.1-8.3 | Test 7       |
| 8,9  | Probability                   | Text 8.4-8.6 | Assignment 8 |
| 10   | Geometry: measuring the earth | Text 9.1-9.2 |              |

## Term 4

| Week | Learning                             | Resources      | Assessment    |
|------|--------------------------------------|----------------|---------------|
| 1    | Geometry: measuring the earth (cont) | Text 9.2       | Test 8        |
| 2    | Surveys and direction                |                | Assignment 9  |
| 3    | Budgets                              |                | Assignment 10 |
| 4,5  | Percentage calculations              | Text 10.2-10.4 | Test 9        |
| 6    | Revision and exam preparation        |                |               |
| 7    | Semester 2 Examinations              |                | Exam          |

## Assessment tasks

### Students Absent for Assessment

In the interest of fairness and as stated in the school Assessment Policy, students who are unwell and absent for any significant mathematics assessment are expected to immediately produce a medical certificate. Failure to do so may result in a zero score for the missed assessment.

Where a student knows in advance they will be absent for a scheduled assessment task such as a test or examination, they must contact their teacher as well as the Head of Learning Area. A letter from the parent or guardian is required to be provided to the teacher and/or Head of Learning Area.

### Policy on late submission of work

The relevant section of the school's assessment policy states:

It is the responsibility of students to submit assessments on the required date.

Students can apply to the class teacher for an **extension**. These will be given at the sole discretion of the teacher in advance in the case of illness, critical events or significant personal issues.

**Where a student fails to submit work by the due date without an extension and with no acceptable excuse, the work will not be accepted.**

Late assessments incur a penalty of 20% per day it is late and this includes weekends (unless extension was provided by the teacher, whose authority will determine reasonable excuse for late submission).

### Proof of submission of work

If a dispute arises about whether or not a piece of work has been submitted, the onus will be on the student to prove that they have submitted the work. Students are encouraged to have their teacher write and sign a receipt in their work record when they submit completed work.

## Student Expectations

### You must bring to every maths class ...

- Your maths journal
- Your maths exercise book or file and file paper
- Two or three (or more) sheets of graph paper
- A ruler, protractor, pen, pencil and eraser. (You may use correction tape, but not liquid correction fluid.)
- The correct calculator specified for your class

### Maths Journal

- You must keep a maths journal. Your maths journal should contain:
  - Complete notes on everything covered in class time. (Copy examples from the board or from the text book, put explanations in your own words, include mnemonics, hints and reminders and so on.)
  - A brief reflection outlining your thoughts and feelings about the work at the end of each section. (Think about questions like: How interesting was the section to you? How difficult did you find the section? Do you feel you completely understood it? What 'worked' for you? What could you have done to improve your learning?)

You should make sure your journal is clearly presented, and you should make good use of colour, etc., to make your journal a valuable asset to your mathematical learning.

- Periodically you will be required to do a journal self-assessment. This will involve giving yourself a mark out of 15 for the journal. I will then collect your journal, look through it, and if I agree with your mark I will sign it. I may make a comment. (If I don't agree with your mark, I may adjust it up or down.) This mark will count towards your semester mark.
- Your journal must be kept in an exercise book. You may not keep your journal on loose sheets of paper. If you submit loose sheets of paper for your journal you will get zero for the journal mark, as well as a red stamp in your work record.
- You must not do exercises in your journal. If you submit a journal with exercises mixed up in the notes, you will get zero for the journal mark as well as a red stamp in your work record.
- From time to time I may ask to see your work record. If it is not up to date you will receive a red stamp in your work record. (A journal is not up to date if there is more than one week's work missing.)
- You must have your maths journal with you for every maths class. If you do not have your journal with you when I ask to see it you can expect to be given an infringement. There may also be other consequences for repeat offenders.

### Maths Exercises

- I prefer you to do maths exercises in an exercise book.
- You may, if you prefer, do exercises on file paper. However, if you do that your file must have all of the exercises you have done so far. For example, if I ask to see an exercise that you did last week, you must have it with you.
- Some lessons require graph paper. That's why it is on your book list. You are expected to have some graph paper *whenever* we need it, so it's a good idea to have two or three sheets tucked into your exercise book or file at all times.
- Maths exercises must be neatly set out. Your page must be ruled up. It is often a good idea to rule your page into two columns. I expect you to set your own work out in the same way as the examples in the text book, or as the examples I may do on the board. If you do not set your work out clearly I may insist that you do it again.

## Calculators

- You should have the correct calculator specified for your class.
- If you have a different but similar calculator from the one specified, you will be allowed to use it, but you will be disadvantaged when we have lessons that specifically address how to use the calculator because those lessons will be specifically targeted at the calculator specified in the book list.
- If you have a calculator that is more powerful than the one specified for your class, you will not be allowed to use it in tests or exams, even if I allow you to use it during regular class time.
- You are expected to bring a working calculator with you to every maths class. If you come to a maths class without a working calculator you can expect to receive an infringement or similar consequence.

## Homework

- Homework is an integral part of our mathematics curriculum. The amount of homework that is expected of different year groups is outlined in your work record. Year 10 students should be completing an average of 30 - 40 minutes mathematics homework (fun work at home) at least 5 nights a week.
- You are expected to do maths homework *after every maths lesson*. Even if no homework is explicitly set, you should:
  - Review the work covered in class;
  - Update your journal to reflect the day's lesson; and
  - Finish exercises started but not completed in class time.
- Mathletics tasks will be set for students to complete and results recorded may contribute towards their marks. Students will often be expected to complete some or all of these tasks outside class time. The Internet address is [www.mathletics.com.au](http://www.mathletics.com.au).

## Maths club

- Maths club is held most Wednesdays during the term from 3:30 to 4:30pm and is open to all students. This time is an opportunity to get additional help from mathematics teachers, complete maths homework, or simply practice mathematics skills on Mathletics.

## Tests and Assignments

- The program for the class includes a general guide as to when to expect tests and assignments. The actual timing of these may vary.
- You will usually be given about a week's notice for tests. This is so that you can make a particular effort to revise and be ready for the test. Sometimes, however, a test may be given with no prior notice in order to determine whether you are making the expected on-going effort to revise and learn after each lesson.
- The due date for assignments will be advised when you are given the assignment.
- The consequences for handing assignments in late will be as outlined in your work record, and will always include some kind of communication with your parents.
- For many tests you will be allowed to bring one page of notes that you have prepared yourself. You may be allowed to refer to your journal for some maths tests. Some tests, however, will be done without any notes at all.
- Students may not share a calculator during tests. Some tests will be done without a calculator.

## Portfolios

- When a test or assignment has been marked and is returned to you, you must take the work home and have a parent or guardian sign the marked work. On the following maths lesson you must then bring it in and show me the signed work. Only then will I record your mark permanently.
- Once you have shown me the signed work, you must file it in a display folder that you keep in the classroom.
- Students who do not have the work signed and returned on the following lesson can expect to receive a red stamp in their work record or similar consequence.
- Students who fail to return an assignment or test taken home for signing risk receiving zero for that assignment or test.