

Overview of Sec Two Maths Programme

Topics

Term 1: Algebra II, Arithmetic II, Statistics

- Monomials and Polynomials
- Expansion and Factorisation
- Quadratic Equations
- Algebraic Manipulation
- Arithmetic Problem Solving
- Financial Literacy
- Mean and Standard Deviation
- Distribution of Data

Term 2: Algebra III, Trigonometry I

- Further Indices
- Coordinate Geometry and Linear Graphs
- Simultaneous Linear Equations
- Pythagoras Theorem

Term 3: Trigonometry I, Geometry II

- Numerical Trigonometry
- Elevation and Depression
- Congruency and Similarity
- Geometric Properties of Circles
- Plane Geometry

Term 4: Revision

Detailed scheme of work and all weekly lesson plans can be viewed at **2010sec2math.wikispaces.com**.

Resources

- **Textbook:** Discovering Mathematics.

This is to be used mainly as a resource for homework assignments.

You are encouraged to read the text and examples to aid in your understanding.

- **Lesson Notes:** These are prepared topically for daily lessons, to introduce concepts and provide extra class exercises.

After the lesson, these notes must be filed systematically in the math file (see page 3 - 4).

Soft copy of each lesson note can be downloaded from **2010sec2math.wikispaces.com**.

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Homework Exercises

Issued after most daily lessons. To be done in exercise book (A4).

Mostly self-or-cross-marked.

Assignments

Issued after each topic/sub-topic. To be done independently on foolscap papers in *blue* or *black* ink.

To be **submitted** to the subject representative on the due date before flag-raising ceremony.

To be **graded** (A, A –, B or C) as a reflection of the quality of work done.

Correction, done in *green* ink, is compulsory for all works graded B or C.

After correction is marked, the assignment must be filed systematically in the math file.

Absent from lessons: Students are to check **2010sec2math.wikispaces.com**

for topics covered, exercises etc. Students are to do self-study to catch-up. If necessary, students have to make appointment with teacher for extra lessons.

Assessments

- **6 Class Tests:** (2, 2, 2) 40 marks, 1 hour each, **30%** of overall percentage.

No Re-test will be given. Make-up tests to be conducted as soon as possible.

- **Oral participation:** Daily performance in class,
- Activities for Curriculum Enrichment (**ACE**): Student initiated, but ideas might be suggested by teacher.

Suggested activities include: Statistical Poster Design, Graphic Calculator Design, Math Competitions Achievements, Self-Study Topics.

- **Final examination:** 100 marks, 2.5 hours, **70%**

Mathematics File

You have to maintain a Math File. The suggested content for your file is

- A table of contents that will serve as a “guide” through the file.
- Cover Page
- Reflections
- Notes, worksheets, reading materials, written assignments, and tests put in chronological order.

Your file may be checked by the teacher any time of the year as and when necessary.

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Contacting the Teacher

- Meet in the staffroom after 1.40 pm, prior appointment is preferred.
- Send an email to choosg@hc.edu.sg (preferred)