Course Outline

Course Description

1. This mathematics course aims to promote a positive attitude to mathematics and its relevance as well as a sound understanding of mathematical processes. Topics covered include: indices; mental computations using the four basic operations; rational and irrational numbers; rates, ratios and percentages; perimeter, area and volume; unit conversions; circles; and time measurement.

Learning Outcomes

- Ability to recognise index laws and apply them to whole numbers
- Able to use mental and written strategies to carry out the four operations with integers
- Recognition and description of rational and irrational numbers
- Solve problems involving profit and loss
- Solve everyday problems involving rates, ratios and percentages
- Solve problems relating to the volume of prisms
- Ability to perform calculations to determine perimeter and area of quadrilaterals
- Convert between units of measurement for area and volume
- Describe the features of a circle and calculate the area and circumference of circles
- Able to make sense of time duration in real applications
- Demonstrates an understanding of literacy in mathematics

Work Practice Outcomes

- Cooperates with teacher and other students
- Exhibits a self-disciplined approach to work
- Completes set homework
- Completes set class work

Materials Required

- Calculator, writing materials (pens, pencils etc), ruler, eraser and an exercise book

Typical Homework

- Homework will be set on: <www.mymathsonline.com.au>
- All students will have their own unique logon and password to access specific tasks. Students who have difficulty accessing the internet may use the computers in the library, or attend tutorials every Thursday at long break. Homework may also include topic investigations as well as completion and revision of classwork.

Assessment Items

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