Stage 1 Mathematical Applications – Semester 1

Course Content

Measurement:

This topic gives students the opportunity for practical learning. Students identify problems and then estimate, measure, and apply relevant techniques to solve them.

Units of measurement, measuring devices, and the degree of accuracy required for finding length, area, volume, and mass in a given situation are incorporated. The use of appropriate measuring devices and correct units are extended into the indirect calculation of lengths and size, using a variety of techniques. The measurement and calculation of time, temperature, and rates such as speed are included. The construction of maps or plans enables students to develop skills in measuring, ratio, and using scales.

Earning & Spending:

This topic gives students the opportunity to explore options relevant to their particular interests. The focus on the earning and spending of money is in the context of the students’ experiences and intended pathways (e.g. working in a rural community or in practical or creative areas). Much of the work could be undertaken using projects in which individuals or groups of students budget for buying a major item, such as a car, or plan a fundraising activity, or run a small business.

Investigations into payments for goods and services, and the effective use of credit, involve students in collecting information on the different ways in which income can be received. Students gather information on forms of income and how it is paid for relevant career pathways. The effects of taxation on personal income are considered.

Students consider how goods and services are charged and paid for, and the effective use of credit, when comparing and making decisions on the best price or method of payment. Building a budget or plan on a spreadsheet allows students to model the management of money when planning an activity such as fundraising or buying a major item.

Assessment

Assessment will include a range of the following, both as individual and group tasks:

- Tests
- Directed investigations
- Assignments
- Research
- Folios
- Other tasks as directed by the teacher