MATHEMATICS

Unit 1&2
Foundation Mathematics

COURSE OUTLINE:

Foundation Mathematics provides for the continuing mathematical development of students with respect to problems encountered in practical contexts in everyday life at home, in the community, at work and in study. Unit 2, is on extending breadth and depth in the application of mathematics, to solving practical problems from contexts studied in Unit 1.

AREAS OF STUDY:

- Algebra, number and structure
- Data analysis, probability and statistics
- Financial and consumer mathematics
- Space and Measurement

OUTCOMES:

On completion of these units, students should be able to:

1. Use and apply a range of mathematical concepts, skills and procedures from selected areas of study to solve practical problems based on a range of everyday and real life contexts.

2. Apply mathematical processes in non-routine practical contexts, including situations with some open ended aspects requiring investigative, modelling or problem solving techniques or approaches, and analyse and discuss these applications of mathematics.

3. Apply computational thinking and use numerical, graphical, symbolic and statistical functionalities of technology to develop mathematical ideas, produce results and carry out analysis in practical situations requiring investigative, modelling or problem-solving techniques or approaches.

ASSESSMENT:

- Examination
- Mathematical Investigation
- Assignments
- Topic Tests

Unit 3&4
Foundation Mathematics

COURSE OUTLINE:

Foundation Mathematics places a focus on providing students with the knowledge, skills and understanding required to solve problems in real world contexts, for a range of workplace, personal and community settings.

AREAS OF STUDY:

- Algebra, number and structure
- Data analysis, probability and statistics
- Discrete mathematics
- Space and Measurement

OUTCOMES:

On completion of these units, students should be able to:

1. Define and explain key terms and concepts as specified in the areas of study and use this knowledge to apply related mathematical procedures to solve routine application problems.

2. Apply mathematical processes in contexts related to the modules and to analyse and discuss these applications of mathematics.

3. Select and appropriately use technology to develop mathematical ideas, produce results and carry out analysis in situations requiring problem-solving, modelling or investigative techniques or approaches in the areas of study.

ASSESSMENT:

S or N based on the demonstrated achievement of the outcomes specified above. The student's level of achievement for Units 3 and 4 will be determined by:

School-Assessed Coursework for Unit 3 & 4:   60%

Exam 1end-of-year: 40%