Subject Outline:
Mathematics A aims to provide the opportunity for students to participate more fully in life-long learning. It involves the study of Financial Mathematics, Applied Geometry, Statistics, and Operations Research. There is a focus on the development of mathematical knowledge and understanding via investigative and explorative approaches to learning. These approaches may also provide opportunities to work collaboratively and cooperatively in teams as well as individually. Mathematics A is based on three strands: Statistics and Probability, Financial Mathematics and Applied Geometry. All students will also study an elective topic – Networks and Queuing, and a choice either Land Measurement or Navigation as part of the course.

Contributes to OP: Yes

Assessment Outline:
Students will complete in class written assessments covering Knowledge and Understanding, and Modelling and Problem Solving as well as several assignments during the course of study.

Career Pathways:
The study of Mathematics A provides a basis for employment or for tertiary study. It would be very suitable as a mathematical preparation for tertiary study in fields such as Economics, Nursing, Psychology, Design and Navigation, Teaching the Arts and the Social Sciences.

Potential Activities:
A range of learning experiences will be provided to students via a spiralling and integrated sequence of topics. Emphasis will be placed on the maintenance of basic skills throughout the course. Access to technology such as computers and graphing calculators will be provided where possible to enhance student exploration and investigation of the concepts and processes of mathematics.

Costs:
The Text Hire Scheme covers all resources. Students must provide a scientific calculator with statistical functions (Casio brand FX82AU $20 - $30 is preferred).

Student Requirements:
Students must have achieved a pass in core maths in Year 10 to study Maths A. Assessment requires research and collection of information in class time and the students' own time. Students of this subject should also be prepared for a minimum of 2 hours homework or revision each week.

Vocational Relevance:
The practical components would be of value in finance, building, surveying etc, as well as being useful skills for the general demands of living.