

**Ringwood Secondary College**  
**2017 Course Planning Document**

## **VCE Unit 1 Specialist Maths**

### **Time Allocation**

This unit of work will consist of approximately 100 hours of which at least 50 hours will be class time. **To complete this unit of work satisfactorily, students must complete each of the following learning outcomes.**

### **Learning Outcomes**

#### **Outcome 1**

The student should be able to define and explain key terms and concepts from the Arithmetic and Number; Geometry, Measurement and Trigonometry; Algebra and Structure; and Graphs of Linear and Non-linear Relations areas of study. They should be able to apply this knowledge to a range of related mathematical procedures to solve routine application tasks.

#### **Outcome 2**

The student should be able to apply mathematical processes in non-routine contexts, and analyse and discuss these applications in the Arithmetic and Number; Geometry, Measurement and Trigonometry; Algebra and Structure; and Graphs of Linear and Non-linear Relations areas of study.

#### **Outcome 3**

The student should be able to use technology to produce results and carry out analysis in situations requiring problem solving, modeling or investigative techniques or approaches in the areas of Arithmetic and Number; Geometry, Measurement and Trigonometry; Algebra and Structure; and Graphs of Linear and Non-linear Relations.

### **Assessment Tasks**

#### **1. Number Systems: Test**

The student is required to complete a variety of multiple choice and short answer questions.

**Weighting:** 12.5% of the overall grade

**Time allocated to task:** 1 period

**Due:** Term 1 Week 4

#### **2. Sequences and Series: Test**

The student is required to complete a variety of multiple choice and short answer questions.

**Weighting:** 12.5% of the overall grade

**Time allocated to task:** 1 period

**Due:** Term 1 Week 8

#### **3. Geometry in the Plane and Proof: Test**

The student is required to complete a variety of multiple choice and short answer questions.

**Weighting:** 10% of the overall grade

**Time allocated to task:** 1 period

**Due:** Term 2 Week 3

#### **4. Geometry in the Plane and Proof: Construction**

The student is required to complete a set of geometric constructions meeting given criteria.

**Weighting:** 2.5% of the overall grade

**Time allocated to task:** 1 week (Homework task)

**Due:** Term 2 Week 3

#### **4. Kinematics: Test**

The student is required to complete a variety of multiple choice and short answer questions.

**Weighting:** 12.5% of the overall grade

**Time allocated to task:** 1 period

**Due:** Term 2 Week 7

#### **5. Examination**

The student is required to apply knowledge and understanding of Number Systems and Recursion, Geometry, Matrices (covered in transition) and Kinematics.

**Weighting:** 50% of the overall grade

**Time allocated to task:**

90 minutes

**Due:** Term 2, Week 8