

**Assessment outline: Mathematics Specialist Units 1 & 2: 2021**

**Note: This outline is subject to change!**

 **Times of assessments may vary with notice.**

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|  | **ASSESSMENT** | **TIME** | **WEIGHTING** |
| **Investigations****20%** | **Investigation 1** | **Wk. 7** **(Term 1)** **2021** | **10%** |
| **Investigation 2** | **Wk.5** **(Term 3)** **2021** | **10%** |
| **Response****40%** | **Test 1: The Nature of Proof (Part 1)*** **Proofs involving numbers**
* **Rational and irrational numbers**

**1.3.1-1.3.2, 2.3.1-2.3.3** | **Wk. 3****(Term 1)** **2021** | **10%** |
| **Test 2: Counting Techniques & Vectors*** **Permutations & combinations**
* **Representing vectors**
* **Algebra of vectors in the plane**
* **Scalar product**

**1.1.1-1.1.9, 1.2.1-1.2.12** | **Wk.4** **(Term 2)** **2021** | **10%** |
| **Test 3: The Nature of Proof (Part 2) & Trigonometry*** **Quantifiers, examples and counter-examples**
* **Proof by mathematical induction**
* **Trigonometric identities**

**1.3.3-1.3.5, 2.3.4-2.3.6** | **Wk.1** **(Term 3)** **2021** | **10%** |
| **Test 4: Matrices & Transformations** * **Matrix arithmetic and algebra**
* **Transformations in the plane**
* **The determinant of a matrix**

**2.2.1-2.2.11** | **Wk.10** **(Term 3)** **2021** | **10%** |
| **Exams****40%** | **Semester One Exam*** **The nature of proof (Part 1)**
* **Combinatorics**
* **Vectors**
* **Circle geometry**
 | **Wk.6-7** **(Term 2)****2021** | **18%** |
| **Semester Two Exam*** **The nature of proof (Parts 1&2)**
* **Combinatorics**
* **Vectors**
* **Circle Geometry**
* **Trigonometry**
* **Matrices**
* **Complex Numbers**
 | **Wk.3-4** **(Term 4)****2021** | **22%** |
|  |  | **TOTAL** | **100%** |
| **Parent and Student Declaration:****I have read the above assessment schedule and understand the requirements of the course.****Student’s Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_** **Parent’s Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_** |