

**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 \_\_\_\_\_\_\_\_\_\_** | | | |