

**Assessment outline: Mathematics Specialist 3 & 4: 2022 –**

**Note: This outline and assessment dates are subject to change!**

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

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|  | **ASSESSMENT** | **TIME** | **WEIGHTING** |
| **Investigations****20%** |
|  **1: Functions****Investigating absolute functions and their graphs**3.2.1 – 3.2.8 | **Wk.6 (T1) 2022** | 10% |
|  **2: Integral Calculus**4.1.5-4.1.7 | **Wk.3 (T3) 2022** | 10% |
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| **Response****40%** | **Test 1: Complex No.****Cartesian forms****Complex arithmetic using polar form****The complex plane (The Argand plane)****Roots of complex numbers****Factorisation of polynomials**3.1.1 – 3.1.15 | **Wk.3 (T1) 2022** | 10% |
|  **2: Functions****Functions****Sketching graphs****The algebra of vectors in three dimensions** **Vector and Cartesian equations**3.2.1 – 3.2.8 3.3.1-3.3.4 | **Wk.3 (T2) 2022** | 10% |
|  **3: Vectors****Systems of linear equations****Vector calculus****Integration techniques****Applications of differentiation**4.1.1 – 4.1.73.3.1 – 3.3.15Integration techniques & applications | **Wk.1 (T3) 2022** | 10% |
|  **4: Integration** **Separation of variables, Modelling motion****Applications of integral calculus** 4.2.1 – 4.2.7Sample Means4.3.1 – 4.3.3 | **Wk.7 (T3) 2022** | 10% |
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| **Exams****40%** | **Semester One Exam** **Topic 3.1: Complex numbers** **Topic 3.2: Functions and sketching graphs** **Topic 3.3: Vectors in three dimensions** Unit 3 | **Wk.5-6 (T2)** | 18% |
| **Semester Two Exam****Topic 4.1: Integration and applications of integration** **Topic 4.2: Rates of change and differential equations** **Topic 4.3: Statistical inference**  Units 3 & 4 | **Wk.9-10 (T3)** | 22% |
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|  |  | **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 \_\_\_\_\_\_\_\_\_\_** |