

## Assessment outline: Mathematics Specialist Units 1 & 2: 2023

## Note: This outline is subject to change! Times of assessments may vary with notice.

Investigations		ASSESSMENT	TIME	WEIGHTING
Investigations   20%   Investigation 2		Investigation 1	Wk. 8	
Investigation   20%   Investigation   2				
Investigations   20%   Investigation 2			Tues in	10%
Investigation 2			class	
Investigation 2			2023	
Test 1: The Nature of Proof (Part 1)		Investigation 2	Wk.5	10%
Test 1: The Nature of Proof (Part 1)			(Term 3)	
Test 1: The Nature of Proof (Part 1)			Fri p1	
Response 40%  Response 5 Algebra of vectors in the plane 5 Caclar product 6 Geometric vectors in the plane 6 Caclar product 7 Caclar Proof by induction 7 Caclar Proof by induction 8 Caclar Proof by induction 9 Caclar Proof 9 Caclar Pro			2023	
Response 40%  Response 5 Scalar product 8 Geometric vectors in the plane 9 Scalar product 9 Geometric vectors in the plane 1.1.16-1.1.18, 1.2.1-1.2.9, 1.3.1-1.3.14  Test 3: Induction, Matrices, Transformations and Trigonometry 10 Wk.10 (Term 3) 10 Matrix arithmetic and algebra 10 Fri p1 10 Transformations in the plane 10 Transformations in the plane 10 Transformations in the plane 10 Matrix arithmetic and algebra 10 Trigonometric functions 10 Tr		Test 1: The Nature of Proof (Part 1)	Wk. 4	13%
Response 40%  Response 5		<ul> <li>Proofs involving numbers</li> </ul>	(Term 1)	
Test 2: Combinatorics and Vectors Permutations & combinations Response 40% Representing vectors Algebra of vectors in the plane Scalar product Geometric vectors in the plane 1.1.16-1.1.18, 1.2.1-1.2.9, 1.3.1-1.3.14  Test 3: Induction, Matrices, Transformations and Trigonometry Proof by induction Matrix arithmetic and algebra Transformations in the plane The determinant of a matrix The basic trigonometric functions Trigonometric identities 23.4-2.36, 2.2.1-2.2.11, 2.1.1-2.1.9  Exams 40% Semester One Exam The nature of proof (Part 1) Combinatorics Vectors Circle geometry Semester Two Exam The nature of proof (Parts 1&2) Combinatorics Vectors Circle Geometry Trigonometry Trig		<ul> <li>Rational and irrational numbers</li> </ul>	Fri p1	
Test 2: Combinatorics and Vectors Permutations & combinations Response 40%  Representing vectors Algebra of vectors in the plane Scalar product Geometric vectors in the plane 1.1.6-1.1.18, 1.2.1-1.2.9, 1.3.1-1.3.14  Test 3: Induction, Matrices, Transformations and Trigonometry Proof by induction Matrix arithmetic and algebra Transformations in the plane The determinant of a matrix The basic trigonometric functions Trigonometric identities 23.4-2.36, 2.2.1-2.2.11, 2.1.1-2.1.9  Exams 40% Semester One Exam The nature of proof (Part 1) Combinatorics Vectors Circle geometry Semester Two Exam The nature of proof (Parts 1&2) Combinatorics Vectors Circle Geometry Trigonometry Trig		1.1.1-1.1.5, 2.3.1-2.3.3	2023	
Response 40%  - Representing vectors - Algebra of vectors in the plane - Scalar product - Geometric vectors in the plane - 1.1.16-1.1.18, 1.2.1-1.2.9, 1.3.1-1.3.14  - Test 3: Induction, Matrices, Transformations and Trigonometry - Proof by induction - Matrix arithmetic and algebra - Transformations in the plane - The determinant of a matrix - The basic trigonometric functions - Trigonometric identities - 2.3.4-2.3.6, 2.2.1-2.2.11, 2.1.1-2.1.9  - Exams - The nature of proof (Part 1) - Combinatorics - Vectors - Circle geometry  - The nature of proof (Parts 1&2) - Combinatorics - Vectors - Circle Geometry - Trigonometry - Trigonometry - Matrices and Transformations - Complex Numbers  - TOTAL - 100%  - Prip p1 - 2023 - 14% - The nature of proof (Parts 1&2) - Combinatorics - 2023 - 22% - Prip p1 - 2023 - 18% - The nature of proof (Parts 1&2) - Combinatorics - Trigonometry - Trigonometric Trigono		Test 2: Combinatorics and Vectors	Wk.3	
Response 40%  - Algebra of vectors in the plane - Scalar product - Geometric vectors in the plane 1.1.16-1.1.18, 1.2.1-1.2.9, 1.3.1-1.3.14  Test 3: Induction, Matrices, Transformations and Trigonometry - Proof by induction - Matrix arithmetic and algebra - Transformations in the plane - The determinant of a matrix - The basic trigonometric functions - Trigonometric identities 2.3.4-2.3.6, 2.2.1-2.2.11, 2.1.1-2.1.9  Exams 40%  Semester One Exam - The nature of proof (Part 1) - Combinatorics - Vectors - Circle geometry  Semester Two Exam - The nature of proof (Parts 1&2) - Combinatorics - Vectors - Circle Geometry - Trigonometry - Trigonometry - Matrices and Transformations - Complex Numbers  TOTAL  13%  13%  13%  13%  13%  13%  13%  13		<ul> <li>Permutations &amp; combinations</li> </ul>	(Term 2)	
Response 40%  - Algebra of vectors in the plane - Scalar product - Geometric vectors in the plane 1.1.16-1.1.18, 1.2.1-1.2.9, 1.3.1-1.3.14  - Test 3: Induction, Matrices, Transformations and Trigonometry - Proof by induction - Matrix arithmetic and algebra - Transformations in the plane - Transformations in the plane - The determinant of a matrix - The basic trigonometric functions - Trigonometric identities 2.3.4-2.36, 2.2.1-2.2.11, 2.1.1-2.1.9  - The nature of proof (Part 1) - Combinatorics - Vectors - Circle geometry  - Semester Two Exam - The nature of proof (Parts 182) - Combinatorics - Vectors - Circle Geometry - Trigonometry - Matrices and Transformations - Complex Numbers  - TotAL - To		<ul> <li>Representing vectors</li> </ul>	Fri p1	13%
Scalar product Geometric vectors in the plane 1.1.16-1.1.18, 1.2.1-1.2.9, 1.3.1-1.3.14  Test 3: Induction, Matrices, Transformations and Trigonometry Proof by induction Matrix arithmetic and algebra Transformations in the plane Transformations in the plane The determinant of a matrix The basic trigonometric functions Trigonometric identities 2.3.4-2.3.6, 2.2.1-2.2.11, 2.1.1-2.1.9  Exams A0% Semester One Exam The nature of proof (Part 1) Combinatorics Circle geometry Semester Two Exam The nature of proof (Parts 1&2) Combinatorics Circle Geometry The nature of proof (Parts 1&2) Combinatorics Trigonometry Trigonometry Mk.3-4 The nature of proof (Parts 1&2) Combinatorics Trigonometry Trigonometry Matrices and Transformations Complex Numbers  TOTAL	Decrees	· · · · · · · · · · · · · · · · · · ·	•	
## Geometric vectors in the plane   1.1.16-1.1.18, 1.2.1-1.2.9, 1.3.1-1.3.14	-			
Test 3: Induction, Matrices, Transformations and Trigonometry Proof by induction Matrix arithmetic and algebra Transformations in the plane The determinant of a matrix The basic trigonometric functions Trigonometric identities 2.3.4-2.3.6, 2.2.1-2.2.11, 2.1.1-2.1.9  Exams A0% Semester One Exam The nature of proof (Part 1) Combinatorics Vectors Circle geometry  Semester Two Exam The nature of proof (Parts 1&2) Combinatorics Vectors Tingonometry Mk.3-4 The nature of proof (Parts 1&2) Combinatorics Vectors Wk.3-4 The nature of proof (Parts 1&2) Combinatorics Vectors Wk.3-4 The nature of proof (Parts 1&2) Combinatorics Vectors Wk.3-4 Trigonometry Matrices and Transformations Complex Numbers TOTAL  Parent and Student Declaration: have read the above assessment schedule and understand the requirements of the course.	40%			
Test 3: Induction, Matrices, Transformations and Trigonometry  Proof by induction  Matrix arithmetic and algebra Transformations in the plane The determinant of a matrix The basic trigonometric functions Trigonometric identities 2.3.4-2.3.6, 2.2.1-2.2.11, 2.1.1-2.1.9  Exams A0%  Semester One Exam The nature of proof (Part 1) Combinatorics Vectors Circle geometry  Semester Two Exam The nature of proof (Parts 1&2) Combinatorics Circle Geometry Trigonometry Trigonometry Mk.3-4 Trigonometry Trigonometry Matrices and Transformations Complex Numbers  TOTAL  TOTAL  TOTAL  Mk.10 (Term 3) Fri p1 2023 14%  Wk.5-6 (Term 2) 2023 18%  Wk.5-6 (Term 2) 2023 2023 22% 22% 22% 22% Parent and Student Declaration: have read the above assessment schedule and understand the requirements of the course.				
Proof by induction  Matrix arithmetic and algebra  Transformations in the plane The determinant of a matrix The basic trigonometric functions Trigonometric identities 2.3.4-2.3.6, 2.2.1-2.2.11, 2.1.1-2.1.9  Exams 40% Semester One Exam The nature of proof (Part 1) Combinatorics Vectors Circle geometry  Semester Two Exam The nature of proof (Parts 1&2) Combinatorics Vectors Torrigonometry Trigonometry Matrices and Transformations Complex Numbers  Parent and Student Declaration: have read the above assessment schedule and understand the requirements of the course.			Wk.10	
## Matrix arithmetic and algebra ## Transformations in the plane ## The determinant of a matrix ## The basic trigonometric functions ## Trigonometric identities ## 2.3.4-2.3.6, 2.2.1-2.2.11, 2.1.1-2.1.9    Exams			(Term 3)	
Transformations in the plane The determinant of a matrix The basic trigonometric functions Trigonometric identities 2.3.4-2.3.6, 2.2.1-2.2.11, 2.1.1-2.1.9  Exams 40%  Exams The nature of proof (Part 1) Combinatorics Vectors Circle geometry  Semester Two Exam The nature of proof (Parts 1&2) Combinatorics Vectors Circle Geometry  The nature of proof (Parts 1&2) Combinatorics Vectors Trigonometry Trigonometry Trigonometry Matrices and Transformations Complex Numbers  TOTAL				
The determinant of a matrix  The basic trigonometric functions Trigonometric identities 2.3.4-2.3.6, 2.2.1-2.2.11, 2.1.1-2.1.9  Exams 40%  The nature of proof (Part 1) Combinatorics Vectors Circle geometry  Semester Two Exam The nature of proof (Parts 1&2) Combinatorics Vectors Tirgonometry Circle Geometry  Terrigonometry Trigonometry Matrices and Transformations Complex Numbers  TOTAL			•	14%
## The basic trigonometric functions ## Trigonometric identities ## 2.3.4-2.3.6, 2.2.1-2.2.11, 2.1.1-2.1.9    Exams				
Exams Semester One Exam Wk.5-6 40% The nature of proof (Part 1) (Term 2)  Combinatorics 2023 18%  Vectors  Circle geometry  Semester Two Exam Wk.3-4  The nature of proof (Parts 1&2) (Term 4)  Combinatorics 2023  Vectors  Circle Geometry  Combinatorics 2023  Vectors  Circle Geometry  Trigonometry  Matrices and Transformations  Complex Numbers  TOTAL 100%  Parent and Student Declaration: have read the above assessment schedule and understand the requirements of the course.				
Exams 40%  Exams 40%  The nature of proof (Part 1) Combinatorics Vectors Circle geometry  Semester Two Exam The nature of proof (Parts 1&2) Combinatorics Circle Geometry  Formula Trigonometry Matrices and Transformations Complex Numbers  TOTAL  Carent and Student Declaration: have read the above assessment schedule and understand the requirements of the course.				
Exams 40%  In a ture of proof (Part 1)  Combinatorics Vectors Vectors Circle geometry  Semester Two Exam The nature of proof (Parts 1&2) Combinatorics Vectors Circle Geometry  Combinatorics Vectors Circle Geometry Trigonometry Matrices and Transformations Complex Numbers  TOTAL				
40%  The nature of proof (Part 1) Combinatorics Vectors Circle geometry  Semester Two Exam The nature of proof (Parts 1&2) Combinatorics Combinatorics Circle Geometry Circle Geometry Trigonometry Matrices and Transformations Complex Numbers  TOTAL	Fyams		Wk.5-6	
Combinatorics Vectors Circle geometry  Semester Two Exam The nature of proof (Parts 1&2) Combinatorics Vectors Circle Geometry Trigonometry Matrices and Transformations Complex Numbers  Parent and Student Declaration: have read the above assessment schedule and understand the requirements of the course.				
Vectors     Circle geometry  Semester Two Exam     The nature of proof (Parts 1&2)     Combinatorics     Vectors     Circle Geometry     Trigonometry     Matrices and Transformations     Complex Numbers  Parent and Student Declaration: have read the above assessment schedule and understand the requirements of the course.				18%
Circle geometry  Semester Two Exam The nature of proof (Parts 1&2) Combinatorics Vectors Circle Geometry Trigonometry Matrices and Transformations Complex Numbers  Parent and Student Declaration: have read the above assessment schedule and understand the requirements of the course.			2020	1070
Semester Two Exam  The nature of proof (Parts 1&2) Combinatorics Vectors Circle Geometry Trigonometry Matrices and Transformations Complex Numbers  TOTAL  TOTAL  100%  Parent and Student Declaration: have read the above assessment schedule and understand the requirements of the course.				
The nature of proof (Parts 1&2) Combinatorics Vectors Circle Geometry Trigonometry Matrices and Transformations Complex Numbers  Parent and Student Declaration: have read the above assessment schedule and understand the requirements of the course.			Wk 3-4	
Combinatorics Vectors Circle Geometry Trigonometry Matrices and Transformations Complex Numbers  TOTAL  Parent and Student Declaration: have read the above assessment schedule and understand the requirements of the course.				
<ul> <li>Vectors         <ul> <li>Circle Geometry</li> <li>Trigonometry</li> <li>Matrices and Transformations</li> <li>Complex Numbers</li> </ul> </li> <li>Parent and Student Declaration:         <ul> <li>have read the above assessment schedule and understand the requirements of the course.</li> </ul> </li> </ul>				
Circle Geometry Trigonometry Matrices and Transformations Complex Numbers TOTAL Tota			2020	
Trigonometry  Matrices and Transformations Complex Numbers  TOTAL 100% Parent and Student Declaration: have read the above assessment schedule and understand the requirements of the course.				22%
Matrices and Transformations     Complex Numbers     TOTAL 100%  Parent and Student Declaration: have read the above assessment schedule and understand the requirements of the course.				
Complex Numbers  TOTAL 100% Parent and Student Declaration: have read the above assessment schedule and understand the requirements of the course.				
Parent and Student Declaration: have read the above assessment schedule and understand the requirements of the course.				
Parent and Student Declaration: have read the above assessment schedule and understand the requirements of the course.		- Complex Numbers	TOTAL	100%
have read the above assessment schedule and understand the requirements of the course.	Parent and Student	   Declaration:	IOIAL	100 /0
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Parent's Signature Date	loront's Signature			