

2026 NATIONAL ATP: MATHEMATICS GRADE 11 – TERM 1

TERM 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	
Topics	Exponents and surds		Equations and inequalities						Trigonometry (reduction formulae, trig equations & general solutions)			
Suggested Date	14/01/2026 – 26/01/2026 (9 days)		27/01/2026 – 20/02/2026 (19 days)						23/02/2026 – 27/03/2026 (25 days)			
Date Completed												
SBA	Investigation (completed by week 6)		&						Test (content of term 1)			

2026 NATIONAL ATP: MATHEMATICS GRADE 11 – TERM 2

TERM 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	EXAM	
Topics	Euclidean Geometry		Functions (excluding Trigonometric Functions)						Exam		PAPER 1 100 marks 2 hours Exponents and surds Equations and inequalities Functions		
Suggested Date	08/04/2026 – 6/5/2026 (20 days)		7/5/2026 – 3/6/2026 (20 days)						04/06/2026 – 26/06/2026 (15 days)		PAPER 2 100 marks 2 hours Trigonometry (reduction formulae, trig equations & general solutions) Euclidean Geometry		
Date Completed													
SBA	Assignment (completed by week 6)		&						Mid-Year Exam			Stanmorephysics.com	

2026 NATIONAL ATP: MATHEMATICS GRADE 11 – TERM 3

TERM 3	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10				
Topics	Trigonometric graphs Trigonometry (sine, cosine and area rules)				Analytical Geometry		Statistics		Probability					
Suggested Date	21/07/2026 – 13/08/2026 (17 days)				14/08/2026 – 25/08/2026 (8 days)		26/08/2026 – 4/09/2026 (8 days)		7/09/2026 – 23/9/2026 (13 days)					
Date Completed														
SBA	Test (completed by week 6)				Test									

2026 NATIONAL ATP: MATHEMATICS GRADE 11 – TERM 4

TERM 4	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	EXAM									
Topics	Number patterns		Finance, growth and decay			Measurement		Examination		PAPER 1 150 marks 3 hours Algebraic expressions, equations and inequalities Number patterns									
Suggested Date	13/10/2026 – 26/10/2026 (10 days)		27/10/2026 – 06/11/2026 (9 days)			09/11/2026 – 13/11/2026 (5 days)		16/11/2026 – 04/12/2026		25 Finance, growth and decay Functions and graphs Probability									
Date Completed										15 45 20									
SBA	Test (completed by week 4)																		
TOTAL NUMBER OF SBA TASKS 7										PAPER 2 150 marks 3 hours Statistics Analytical Geometry Trigonometry Euclidean Geometry									
										20 30 50 50									

2026 NATIONAL ATP: MATHEMATICS GRADE 11 – TERM 1

TERM 1	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11
Topics	Exponents and surds			Equations and inequalities			Trigonometry (reduction formulae, trig equations & general solutions)				
	1. Simplify expressions and solve equations using the laws of exponents for rational exponents where, $x^{\frac{p}{q}} = \sqrt[q]{x^p}$; $x > 0$; $q > 0$ 2. Add, subtract, multiply and divide simple surds. 3. Solve simple equations involving surds.	1. Complete the square 2. Solve Quadratic equations (by factorization and by using the quadratic formula) 3. Solve Quadratic inequalities in one unknown (Interpret solutions graphically.) NB: It is recommended that the solving of equations in two unknowns is important to be used in other equations like hyperbola-straight line as this is normal in the case of graphs 4. Equations in two unknowns, one of which is linear and the other quadratic. 5. Nature of roots	1. Derive and use the identities: $\tan \theta = \frac{\sin \theta}{\cos \theta}$, $\theta \neq k.90^\circ$, k an odd integer; and $\sin^2 \theta + \cos^2 \theta = 1$. 2. Derive and use reduction formulae to simplify the following expressions: 2.1. $\sin(90^\circ \pm \theta)$; $\cos(90^\circ \pm \theta)$; 2.2. $\sin(180^\circ \pm \theta)$; $\cos(180^\circ \pm \theta)$ and $\tan(180^\circ \pm \theta)$; 2.3. $\sin(360^\circ \pm \theta)$; $\cos(360^\circ \pm \theta)$ and $\tan(360^\circ \pm \theta)$; 2.4. $\sin(-\theta)$; $\cos(-\theta)$ and $\tan(-\theta)$; 3. Determine for which values of a variable an identity holds. 4. Determine the general solutions of trigonometric equations. Also, determine solutions in specific intervals.								
Date completed											
SBA			Investigation				&		Test (content of term 1)		

2026 NATIONAL ATP: MATHEMATICS GRADE 11 – TERM 2

TERM 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9 - 11		
Topics			Euclidean Geometry				Functions (including Trigonometric Functions)		PAPER 1 100 marks 2 hours		
									Exponents and surds	15	
									Equations and inequalities	40	
									Functions (excluding Trigonometric Functions)	45	
	1. Accept results established in earlier grades as axioms and also, that a tangent to a circle is perpendicular to the radius drawn to the point of contact. 2. Then investigate and prove the theorems of the geometry of circles: <ul style="list-style-type: none">The line drawn from the centre of a circle perpendicular to a chord bisects the chord.The line drawn from the centre of a circle to the midpoint of a chord is perpendicular to the chord.The perpendicular bisector of a chord passes through the centre of the circle.The angle subtended by an arc at the centre of a circle is double the size of the angle subtended by the same arc at the circle (on the same side of the chord as the centre);Angles subtended by a chord of the circle, on the same side of the chord, are equal.The opposite angles of a cyclic quadrilateral are supplementary.Two tangents drawn to a circle from the same point outside the circle are equal in length.The angle between the tangent to a circle and the chord drawn from the point of contact is equal to the angle in the alternate segment. Use the above theorems and their converses, where they exist, to solve riders.	1. Revise the effect of the parameters a and q and investigate the effect of p on the graphs of the functions defined by: 1.1. $y = f(x) = a(x + p)^2 + q$ 1.2. $y = f(x) = \frac{a}{x+p} + q$ 1.3. $y = f(x) = a \cdot b^{x+p} + q$ where $b > 0$, $b \neq 1$ 2. Investigate numerically the average gradient between two points on a curve and develop an intuitive understanding of the concept of the gradient of a curve at a point.		PAPER 2 100 marks 2 hours				Trigonometry (reduction formulae, trig equations & general solutions)	30		
Date completed									Euclidean Geometry	40	
SBA			Assignment						Analytical Geometry	30	
									Mid-Year Exam		

2026 NATIONAL ATP: MATHEMATICS GRADE 11 – TERM 3

TERM 3	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11
Topics	Trigonometric Functions Trigonometry (sine, cosine and area rules)				Analytical Geometry		Statistics		Probability		
	1. Point by point plotting of basic graphs defined by $y = \sin \theta$, $y = \cos \theta$ and $y = \tan \theta$ for $\theta \in [-360^\circ; 360^\circ]$. 2. Investigate the effect of the parameter k on the graphs of the functions defined by, $y = \sin(kx)$, $y = \cos(kx)$ and $y = \tan(kx)$ 3. Investigate the effect of the parameter p on the graphs of the functions defined by, $y = \sin(x + p)$, $y = \cos(x + p)$ and $y = \tan(x + p)$ 4. Draw sketch graphs defined by: $y = a \sin k(x + p)$, $y = a \cos k(x + p)$ and $y = a \tan k(x + p)$ at most two parameters at a time.	1. Prove and apply the sine, cosine and area rules. Solve problems in two dimensions using the sine, cosine and area rules.	1. Revise, <ul style="list-style-type: none"> distance between the two points. gradient of the line segment connecting the two points (and from that identify parallel and perpendicular lines); and Coordinates of the mid-point of the line segment joining the two points. 2. Derive and apply, <ul style="list-style-type: none"> the equation of a line through two given points. the equation of a line through one point and parallel or perpendicular to a given line; and The inclination (θ) of a line, where $m = \tan \theta$ is the gradient of the line ($0^\circ \leq \theta \leq 180^\circ$) 	1. Revise measures of central tendency and dispersion in ungrouped and grouped data. 2. Revise Five number summary (maximum, minimum and quartiles) and box and whisker diagram. 3. Revise Histograms 4. Frequency polygons 5. Ogives (cumulative frequency curves) 6. Variance and standard deviation of ungrouped data 7. Symmetric and skewed data 8. Identification of outliers.	1. Revise the use of probability models to compare the relative frequency of events with the theoretical probability. 2. Revise the use of Venn diagrams to solve probability problems, deriving and applying the following for any two events in a sample space S: <ul style="list-style-type: none"> Addition rule $P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$; A and B are Mutually exclusive if $P(A \text{ and } B) = 0$; Addition rule for mutually exclusive events A and B is: $P(A \text{ or } B) = P(A) + P(B)$ A and B are complementary if they are, <ul style="list-style-type: none"> mutually exclusive and $P(A) + P(B) = 1$ Then $P(B) = P(\text{not } A) = 1 - P(A)$	1. Identify dependent and independent events and the product rule for independent events: $P(A \text{ and } B) = P(A) \times P(B)$	4. The use of Venn diagrams to solve probability problems, deriving and applying formulae for any three events A , B and C in a sample space S. 5. Use tree diagrams for the probability of consecutive or simultaneous events which are not necessarily independent. 6. Use Venn diagrams, Tree diagrams and contingency tables to solve real life problems.				
Date completed											
SBA	Test				Test						

2026 NATIONAL ATP: MATHEMATICS GRADE 11 – TERM 4

TERM 4	Week 1	Week 2	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	EXAM
Topics	Number patterns		Finance, growth and decay		Revision		Examination			PAPER 1 150 marks 3 hours
	Patterns: Investigate number patterns leading to those where there is a constant second difference between consecutive terms, and the general term is therefore quadratic.		1. Revise the use of the simple and compound growth formulae $[A = P(1 + in)$ and $A = P(1 + i)^n$] to solve problems, including interest, hire purchase, inflation, population growth and other real-life problems. 2. Understand the implication of fluctuating foreign exchange rates (e.g. on the petrol price, imports, exports, overseas travel). 3. Use simple and compound decay formulae: $A = P(1 - in)$ and $A = P(1 - i)^n$ To solve problems (including straight line depreciation and depreciation on a reducing balance). 4. The effect of different periods of compound growth and decay, including nominal and effective interest rates							Algebraic expressions, equations and inequalities Number patterns Finance, growth and decay Functions and graphs Probability
Date completed										PAPER 2 150 marks 3 hours
SBA			Test							Statistics Analytical Geometry Trigonometry Euclidean Geometry
TOTAL NUMBER OF SBA TASKS 7										