2025 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	s and surds		Equations an	d inequalities		Trigonometry (reduction formulae, trig equations & general solutions)							
Date completed	15/01/2025 - (8 da	- 24/01/2025 ays)		27/01/2025 - 21/02	2/2025 (20 days)			24/	02/2025 - 28/03/2025 (24 da	ays)				
SBA			Investigation or pro	ject (completed by	week 6)		(&		Test (content of term 1)				

025

	-			-	2025 N	ational ATP: MATH	HEMATICS GRADE 11 -	- TERM 2					
TERM 2	Week 1	Week 2	Week 3	Week 4	Week 5					Week 10	Week 11	Week 12	
Topics	Euclidean Geometry				Analytical Geometry Functions (ex			xcluding Trigonometric Fund		Exam			
Date completed	08/04/2025 - 02/05/2025 (15 days)				05/05/2025 - 16/05/2025 (10 days) 19/05/2025 - 06/06/2025 (15 days)					09 /06/2025 - 27/06/2025 (14 days)			
SBA		Assignm	nent (completed b	y week 6)						Mid	-Year Exam		

2025 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 graphs	Trigonome	try (sine, c	osine and area rules)		Statistics		Probability		Finance, growth and decay		
Date completed	22/07/2025 - 25/07/2025 (4 days)	28/07/20	25 - 15/08	/2025 (15 days)	18/08/2025 - 2	18/08/2025 - 29/08/2025 (10 days)		0109/2025 - 19/08/2025 (13	5 days)	22/09/2025 - 03/10/2025 (9 days)		
SBA		Fest (completed	l by week 6)				Те	st			

2025 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	
Topics		Number patterns		Revision of measurement	Revision of Algebra	Revision of Trigonometry		Exami	ination	
Date completed	13/10/2025 - 31/	10/2025 (15 days	s)	3/11/2025 - 07/11/2025 (5 days)	10/11/2025 - 14/11/2025 (5 days)	17/11/2025 – 21/11/2025 (5 days)	24/11/2025 - 10/12/2025			
SBA			Test (completed	by week 4)						
TOTAL NUMBER	BER OF SBA TASKS 7									



Week 10	EXAM	
	PAPER 1 150 marks 3 hours	
	Algebraic expressions, equations and inequalities	45
	Number patterns	25
	Finance, growth and decay	15
	Functions and graphs	45
	Probability	20
	PAPER 2 150 marks 3 hours	
	Statistics	20
	Analytical Geometry	30
	Trigonometry	50
	Euclidean Geometry	50

2025 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
Topics	Exponent	s and surds		Equations an	d inequalities	1		Trigonometry (redu	ction formulae, trig equat
Date completed	solve equat laws of exp rational exp $x^{\frac{p}{q}} = \sqrt[q]{x^{p}};$ 2. Add, subtra divide simp	ponents where, x > 0; $q > 0ct, multiply andle surds.le equations$	formula)3. Solve QuadratiNB: It is recoimportant to benormal in the c	tic equations (by fa ic inequalities in one to ommended that the so e used in other equation case of graphs wo unknowns, one of	unknown (Interpret so olving of equations ions like hyperbola-s	olutions graphically.) in two unknowns is traight line as this is	 2. Derive and use reduction 2.1. sin (90° ± θ); cos 2.2. sin (180° ± θ); cos 2.3. sin (360° ± θ); cos 2.4. sin (-θ); cos (-θ) 3. Determine for which values 	s $(180^{\circ} \pm \theta)$ and tan $(180^{\circ} \pm \theta)$ s $(360^{\circ} \pm \theta)$ and tan $(360^{\circ} \pm \theta)$	lowing expressions: $(\theta);$ $(\theta);$ nolds.
SBA			Investigation or	· project			&		

2025 National RATP: 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 - 12	
TERM 2 Topics	1. Accept results and also, that a tangent contact. 2. Then investiga • The line d bisects the	Euclidean established in earlier to a circle is perpendio ate and prove the theo rawn from the centre of chord.	Geometry grades as axioms cular to the radius dra rems of the geometry of a circle perpendicu	wn to the point of of circles: lar to a chord	Analytica 1. Revise, • distance betwe • gradient of the connecting the that identify p perpendicular • Coordinates o	Geometry een the two points. line segment two points (and from arallel and lines); and f the mid-point of the	 Functions (including Trigonometric Functions) 1. Revise the effect of the parameters a and q and investigate the effect of p on the graphs of the functions defined 1.1. y = f(x) = a(x + p)² + q 1.2. y = f(x) = a/(x+p) + q 1.3. y = f(x) = a.b^{x+p} + q where b > 0, b ≠ 1 2. Investigate numerically the average gradient between two points on a curve and develop an intuitive understand the concept of the gradient of a curve at a point. 					
	 perpendict The perpendict The perpendict The angle of the angle of the angle the chord Angles sur are equal. The oppose Two tange equal in let The angle 	between the tangent t	chord passes through at the centre of a circle me arc at the circle (o the circle, on the sam quadrilateral are supp from the same point o o a circle and the cho	the centre of the e is double the size on the same side of ne side of the chord, lementary. outside the circle are rd drawn from the	 2. Derive and apply, the equation of points. the equation of and parallel or pline; and The inclination 	oining the two points. a line through two given a line through one point berpendicular to a given (θ) of a line, where he gradient of the line $^{\circ}$)		с т				
Date completed		ontact is equal to the a theorems and their co	nverses, where they e						Mi	l-Year Exam		



	Week 10	Week 11
ations	& general solutions)	
er; and	$\sin^2\theta + \cos^2\theta = 1.$	
solutio	ons in specific intervals.	
Т	est (content of term 1)	

2025 National RATP: 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		y (sine, cosine a rules)	Stati	stics		Probability		Finance	, growth and decay	,
	 Point by point plotting of basic graphs defined by y = sin θ, y = cos θ and y = tan θ for θ ∈ [-360°; 360°]. 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) 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) 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. 	 Prove and a cosine and a Solve problematical 	pply the sine, area rules. ems in two using the sine,	 Revise Five r (maximum, n quartiles) and whisker diagn Revise Histor Frequency pc Ogives (cump frequency curve) Variance and 	dispersion in ad grouped data. number summary ninimum and d box and ram. grams olygons ulative rves) standard ungrouped data and skewed data	 probability. 2. Revise the use of Venn diagrams to for any two events in a sample space. Addition rule P(A or B) = P(A) + P(B) A and B are Mutually excluse events A and B is: A and B are complementary > mutually exclusive and > P(A) + P(B) = 1 Then P(B) = P(not A) = 1 - P(A) 3. Identify dependent and independent and independent and three events A, B and C in a sam 5. Use tree diagrams for the probability independent. 	-P(A and B); sive if $P(A and B) = 0$; Addition run P(A or B) = P(A) + P(B) of they are, re (A) Hent events and the product rule for ind $P(A \text{ and } B) = P(A) \times P(B)$ we probability problems, deriving and	g and applying the following ale for mutually exclusive dependent events: applying formulae for any vents which are not	 Revise the use of the formulae P(1 + in) and A = including interest, h growth and other reading of the implex of th	= $P(1 + i)^n$] to sol ire purchase, inflat al-life problems. lication of fluctuati on the petrol price avel). pound decay formu including straight l preciation on a redu	[A = lve problems, ion, population ing foreign , imports, ulae: ine ucing balance). ound growth
Date completed SBA				Test				Test			
SDA				1 051				1 051			

2025 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	Week 10	EXAM	
Topics	Nu	mber patterns		Revision of measurement	Revision of Algebra	Revision of Trigonometry		Exam	ination	•	PAPER 1 150 marks 3 hours	
	Patterns: Investigate number patterns leading to those where there is a const second difference between consecutiv terms, and the general term is therefor quadratic.			 Revise the volume and surface areas of right-prisms and cylinders. Study the effect on volume and surface areas when multiplying any dimension by a constant factor k. Calculate volume and surface areas of spheres, right prisms, right cones and combination of those objects (figures). 							Algebraic expressions, equations and inequalities Number patterns Finance, growth and decay Functions and graphs Probability	45 25 15 45 20
Date completed											PAPER 2 150 marks 3 hours	
SBA				Test							Statistics Analytical Geometry Trigonometry	20 30 50
TOTAL NU	MBER OF SBA T	ASKS 7				•	•				Euclidean Geometry	50



basic education Department: Basic Education REPUBLIC OF SOUTH AFRICA