

EDUCATION REPUBLIC OF SOUTH AFRICA

MATHEMATICS ANNUAL TEACHING PLAN GRADE 10 – 2025

NAME OF SCHOOL:	
NAME OF TEACHER:	

			- Inni	TERM 1					
NUMBER OF DATE STARTED C		DATE COMPLETED	TOPIC	CURRICULUM STATEMENT	ASSESSMENT	F/IF?	DH: SIGNATURE AND DATE	% C PLE Term	
15/01 – 17/01 (3 days)				 Understand that real numbers can be rational or irrational. Know the difference as far as the decimal expansions of the numbers are concerned. Establish between which two integers a given simple surd lies. 				8	2
20/01 -31/01 (10 days)			ALGEBRA PART 1 (ALGEBRAIC EXPRESSIONS)					33	10
03/02 - 04/02 (2 days)				6. Simplification of algebraic fractions using factorisation.				38	12
05/02 -10/02 (4 days)				7. Addition and subtraction of algebraic fractions with denominators with denominators of cubes (limited to sum and difference of cubes).				48	15
11/02 (1 day)			ALGEBRA PART 2 (Exponents)	1. Revise laws of exponents learnt in Grade 9 where $x, y > 0; m, n \in \mathbb{Z}$: • $x^m \times x^n = x^{m+n}$ • $x^m \div x^n = x^{m-n}$ • $(x^m)^n = x^{mn}$ • $x^m \times y^m = (xy)^m$ 2. Also, by definition: $x^{-n} = \frac{1}{x^n}, x \neq 0 \text{and} x^0 = 1, x \neq 0$				50	16
12/02 -17/02 (4 days)				3. Use the laws of exponents to simplify expressions and solve equations, accepting that the rules also hold for $m, n \in Q$.	INVESTIGATION SBA weighting: 15			60	19

NUMBER OF DAYS	DATE STARTED	DATE COMPLETED	TOPIC	CURRICULUM STATEMENT	ASSESSMENT	F/IF?	HOD: SIGNATURE AND DATE		
18/02 –20/02 (3 days)				 Revise the solution of linear equations. Solve quadratic equations (by factorisation). 				68	21
21/02 –27/02 (5 days)			ALGEBRA PART 3 (Equations and Inequalities)	 Solve simultaneous linear equations in two unknowns. Solve word sums involving linear, quadratic or simultaneous linear equations. 				80	25
28/02 -04/03 (3 days)				 Solve literal equations (changing the subject of a formula). Solve linear inequalities (and show solution graphically). Interval notation must be taught. 				88	28
05/03 – 11/03 (5 days)			TRIGONO- METRY PART 1	 Define the trigonometric ratios sin θ, cos θ, and tan θ using right-angled triangles. Define the reciprocals of the trigonometric ratios cosec θ, sec θ and cot θ using right-angled triangles. (These three reciprocals should be examined in grade 10 only.) Derive values of the trigonometric ratios for the special cases (without using a calculator), θ ∈ {0°; 30°; 45°; 60°; 90°}. 				100	31
12/03 – 28/03 (12 days)	,		REVISION and MARCH TEST	MARCH TEST to cover all the work done during Term 1.	MARCH TEST SBA weighting: 14	F			

NUMBER OF DAYS	DATE STARTED	TOPIC	CURRICULUM STATEMENT OPIC		F/IF?	DH: SIGNATURE AND	PLE	COM- ETED
08/04 -14/04 (5 days)		TRIGONO- METRY PART 1 (continued)	 Solve simple trigonometric equations for angles between 0° and 90°. Extend the definitions of sin θ, cos θ, and tan θ for 0° ≤ θ ≤ 360° Use diagrams to determine the numerical values of ratios for angles from 0° to 360° 			DATE	13	Year 35
015/04–12/05 (13 days)		EUCLIDEAN GEOMETRY	 Revise basic results established in earlier grades regarding lines, angles and triangles, especially the similarity and congruence of triangles. Define the following special quadrilaterals: the kite, parallelogram, rectangle, rhombus, square and trapezium. Investigate and make conjectures about the properties of the sides, angles, diagonals and areas of these quadrilaterals. Prove these conjectures. The following proofs of theorems are examinable: The opposite sides and angles of a parallelogram are equal. If one pair of opposite sides of a quadrilateral are equal and parallel, then the quadrilateral is a parallelogram. The diagonals of a rectangle are equal. The diagonals of rhombus bisect each other at right angles and bisect the interior angles of the rhombus. 				45	46
13/05–15/05 (3 days)			Investigate line segments joining the midpoints of two sides of a triangle				53	48
16/05 – 22/05 (5 days)		ANALYTICAL GEOMETRY	 Represent geometric figures on a Cartesian co-ordinat system. Derive and apply for any two points, (x₁; y₁) and (x₂; y₂), the formulae for calculating the: distance between the two points; gradient of the line segment connecting the two points (and from that identify parallel and perpendicular lines); coordinates of the midpoint of the line segment joining the two points. 	ASSIGNMENT SBA weighting: 15			65	52

NUMBER OF DAYS	DATE STARTED	DATE COMPLETED	TOPIC	CURRICULUM STATEMENT	ASSESSMENT	F/IF?	DH: SIGNATURE AND DATE	% C PLE Term	
23/05 (1 day)				 The concept of a function, where a certain quantity (output value) uniquely depends on another quantity (input value). Work with relationships between variables using tables, graphs, words and formulae. Convert flexibly between these representations. Note that the graph defined by y = x should be known from Grade 9. 				68	53
26/05–11/06 (13 days)			FUNCTIONS AND GRAPHS	 Point by point plotting of basic graphs defined by y = x², y = 1/x, and y = b², b>0 and b≠1 to discover shape, domain (input values), range (output values), asymptotes, axes of symmetry, turning points and intercepts on the axes (where applicable). Investigate the effect of a and q on the graphs defined by y = a.f(x)+q, where f(x)=x f(x)=x², f(x)=1/x, and f(x)=b², b>0 and b≠1. Sketch graphs, find the equations of given graphs and interpret graphs. Note: Sketching of the graphs must be based on the observation of number 3 above. 				100	63
17/06 – 27/06 (9 days)			REVISION and JUNE EXAM	JUNE EXAMINATION to cover the work done during Term 1 and Term 2.	JUNE EXAM SBA weighting: 14	F			

NUMBER OF DAYS	DATE STARTED	DATE COMPLETED	ТОРІС	CURRICULUM STATEMENT	ASSESSMENT	F/IF?	DH: SIGNATURE AND DATE		OM- TED Year
22/07 – 29/07 (6 days)			PART 2 (FUNCTIONS AND GRAPHS)	 Point by point plotting of basic graphs defined by y = sin θ, y = cos θ and y = tan θ for θ ∈ [0°; 360°]. Study the effect of a and q on the graphs defined by y = a sin θ + q; y = a cos θ + q and y = a tan θ + q, for θ ∈ [0°; 360°]. Sketch graphs, find the equations of given graphs and interpret graphs. Note: Sketching of the graphs must be based on the observation of number 2 above. 			ANDDATE	14	68
30/07 – 05/08 (5 days)			TRIGONO- METRY PART 3	Solve two-dimensional problems involving right- angled triangles.				26	72
06/08 - 08/08 (3 days)			STATISTICS (From Grade 9)	Draw a variety of graphs to display and interpret data including: • bar graphs and double bar graphs • histograms with given and own intervals • pie charts • broken line graphs				33	74
11/08 – 13/08 (3 days)			STATISTICS	 Revise measures of central tendency in ungrouped data. Measures of central tendency in grouped data: Calculation of mean estimate of grouped data and identification of modal interval and interval in which the median lies. Revision of range as a measure of dispersion and extension to include percentiles, quartiles, interquartile and semi- interquartile range. 				40	76
14/08 – 19/08 (4 days)			STATISTICS	 Five number summary (maximum, minimum and quartiles) and box and whisker diagram. Use the statistical summaries (measures of central tendency and dispersion), and graphs to analyse and make meaningful comments on the context associated with the given data. 				50	80

NUMBER OF DAYS	DATE STARTED	DATE COMPLETED	TOPIC	CURRICULUM STATEMENT	ASSESSMENT	F/IF?	DH: SIGNATURE AND DATE	% C PLE Term	OM- TED Year
20/08 – 29/08 (8 days)			PROBABILITY	 The use of probability models to compare the relative frequency of events with the theoretical probability. The use of Venn diagrams to solve probability problems, deriving and applying the following for any two events A and B in a sample space S: P(A or B)=P(A)+P(B)-P(A and B); A and B are mutually exclusive if P(A and B)=0; A and B are complementary if they are mutually exclusive and P(A)+P(B)=1; Then: P(B)=P(not A)=1-P(A). 				69	86
01/09 – 10/09 (8 days)			FINANCE AND GROWTH	 Use the simple and compound growth formulae [A = P(1+in) and A = P(1+i)ⁿ] to solve problems, including annual interest, hire purchase, inflation, population growth and other real-life problems. Understand the implication of fluctuating foreign exchange rates (e.g. on the petrol price, imports, exports, overseas travel). 	TERM 3 TEST SBA weighting: 14	F		88	92
11/09 – 17/09 (5 days)			NUMBER PATTERNS	Investigate number patterns leading to those where there is a constant difference between consecutive terms, and the general term is therefore linear.				100	96
18/09 – 03/10 (11 days)			REVISION and SEPTEMBER TEST	Do not use the formula $T_n = a + (n-1)d$. SEPTEMBER TEST to cover the work done during Term 3.	SEPTEMBER TEST SBA weighting: 14	F			

Downloaded from Stanmorephysics.com

			Inni	TERM 4				
NUMBER OF DAYS	DATE STARTED	DATE COMPLETED	TOPIC	CURRICULUM STATEMENT	ASSESSMENT	F/IF?	DH: SIGNATURE AND DATE	% COM- PLETED
13/10 – 21/10 (7 days)			MEASURE- MENT	 Revise the volume and surface areas of right-prisms and cylinders. Study the effect on volume and surface area when multiplying any dimension by a constant factor k. Calculate the volume and surface areas of spheres, right pyramids and right cones. In case of pyramids, bases must either be an equilateral triangle or a square. Problem types must include composite figures. 	TERM 4 TEST SBA weighting: 14	F	100	100
22/10 – 28/10 (5 days)				REVISION OF PAPER 1 TOPICS				
29/10 – 04/11 (5 days)				REVISION OF PAPER 2 TOPICS	_			
05/11 - 10/12 (26 days)			FURTHER REVISION and NOVEMBER EXAM	NOVEMBER EXAMINATION to cover all the work done during Terms 1, 2, 3 and 4.	NOVEMBER EXAMINATION	F		

- Downloaded from	Stanmorephys GR. 10 MAT	THEMATICS 2025 T	EST and EXAMINAT	TON SCOPE			
TERM 1	100	TERM 2	TER	М 3	TERM 4	· S	
	JUNE E	XAMINATION			NOVEMBER EXAMINATION		
MARCH TEST	jann P	PAPER: 1		ER TEST	PAPER 1:		
DURATION: 1½ hours	DURATION:	1 hour	DURATION:	1½ hour	DURATION:	2 hours	
TOTAL MARKS: 75	TOTAL MARKS:	50	TOTAL MARKS:	75	TOTAL MARKS:	100	
This test will consist of the following sections:	This examination v following sections:		This test will consist of sections:	the following	This examination paper the following sections:	will consist of	
Algebra Part 1 (Algebraic Expressions)	Algebra	25±3 marks	Number patterns	15±3 marks	Algebraic expressions,		
Algebra Part 3 (Equations and Inequalities)	marks Functions and Grap	hs 25±3 marks	Finance and growth	10±3 marks	equations (and inequalities and exponents.	30±3 marks	
Algebra Part 2 (Exponents) 18±	marks		Probability	15±3 marks	Number patterns	15±3 marks	
Trigonometry Part 1 (no. 1 – 3)	marks		Statistics	15±3 marks	Functions and graphs	30±3 marks	
			Trigonometry Part 2 (Trigonometric Function Graphs)	ns and 10±3 marks	Finance and growth	10±3 marks	
			Trigonometry Part 3 (2D problems involving angled triangles)	right- 10±3 marks	Probability	15±3 marks	
	P	PAPER 2:			PAPER 2	:	
	DURATION:	1 hour			DURATION:	2 hours	
	TOTAL MARKS:	50			TOTAL MARKS:	100	
	This examination problems following sections:	paper will consist of the			This examination paper the following sections:	will consist of	
	Euclidean Geometry	y 25±3 marks			Statistics	15±3 marks	
	Analytical Geometr	y 13±3 marks			Analytical Geometry	15±3 marks	
	Trigonometry Part	1 12±3 marks			Trigonometry	40±3 mark	
					Euclidean Geometry and Measurement	30±3 marks	