

2023/24 ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 10 (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	Algebraic expressions				Exponents, equations as	nd inequalities		Trigonometry				
DATE COMPLETED												
SBA	Investigation or project	t & test (content of Terr	n 1)									

2023/24 ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 10 (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
TOPICS	Euclidean Geometry				Analytical Geometry	al Geometry Functions (including trigonometric functions)					
DATE COMPLETED											
SBA	Assignment & mid-yea	r exam									

2023/24 ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 10 (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	Trigonometry (2D) Statistics					Probability			Finance and growth				
DATE COMPLETED													
SBA	Test					Test							

2023/24 ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 10 (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	Measurement		Number patterns	Revise Algebra	Revise	Revise functions	Examination			Admin	PAPER 1	
					Trigonometry &						Algebra	30
					Geometry						Number patterns	15
DATE											Finance, growth	10
COMPLETED											Functions and graphs	30
SBA	Test										Probability	15
TOTAL NUMBI	ER OF SBA TASKS 7				,	1	7				PAPER 2	
TERM 1 INVE	ESTIGATION/PROJECT (159	%) AND TEST (14%)									Statistics	15
TERM 2 ASS	GIGNMENT (15%) AND MID-	YEAR EXAM (14%)									Analytical Geometry	15
TERM 3 TEST	Γ (14%) AND TEST (14%)										Trigonometry	40
TERM 4 TEST	Γ (14%)										Euclidean Geometry &	30
											measurement	

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2023/24 ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 10 (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	ALGEBRAIC EXPR	ESSIONS			EXPONENTS, EQUAT	TIONS AND INEQUALITIE	S		TRIGONOMETRY				
DATE	 Establish between Round real nunction Multiplication of the second s	nbers to an appropriate if a binomial by a trinor include types taught in n pairs difference of two cubes ding and subtracting al	s a given simple surd lid e degree of accuracy mial in Grade 9 and:	g factorisation with	• $x^m \times x^n = 1$ • $x^m \div x^n = 1$ • $(x^m)^n = x^n$ • $x^m \times y^m = 1$ Also, by definition $x^{-n} = \frac{1}{x^n}, x \neq 1$ 2.Use the laws of exposing also hold for $x \neq 1$ 3.1. Revise the second solution of $x \neq 1$ 3.2. Solve quadratic solution of $x \neq 1$ 3.3. Solve simultary solution of $x \neq 1$ 3.4. Solve word properties of $x \neq 1$ 3.5. Solve literal solution of $x \neq 1$	x^{m-n} $= (xy)^m$ $= 0$ and $x^0 = 1, x \neq 0$ The second of the equations of the equations of the equations in the equations in the equations (changing the subsequent of the equalities (and show solutions).	ons and solve equations, tion) two unknowns luadratic or simultaneous ubject of a formula)	accepting that the rules	 Using the right – angle Extend the definitions Define the reciprocal of angled triangles (these Derive values of the tr θ ∈ {0°, 30°, 45°, 60 Solve two-dimensiona Solve simple trigonom 	of $\sin \theta$, $\cos \theta$ and $\tan \theta$ for $0^{\circ} \le \theta$ of the trigonometric ratios $\csc \theta$, see three reciprocals should be examine igonometric ratios for the special case	$c \theta$ and $cot \theta$, using the righted in Grade 10 only) as (without using a calculator) gle and 90°		
COMPLETED													
SBA	Investigation or pr	oject							Test (content of Term 1)				

2023/24 ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 10 (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		
TOPICS	EUCLIDEAN GEO	METRY			ANALYTICAL GEOMETRY	ANALYTICAL GEOMETRY FUNCTIONS AND GRAPHS (INCLUDING TRIGONOMETRIC FUNCTIONS)							
DATE	and triangles, 2. Define the follor rhombus, square properties of the Prove these compared in the provestigate lines. Solve problems	results established in earl, especially the similarity a wing special quadrilateral re and trapezium. Investige sides, angles, diagonals njectures segment joining the midps and prove riders using the rilaterals and midpoint the	and congruence of triang s: The kite, parallelogral pate and make conjectures and areas of these qua- points of two sides of a transporter of parallel	gles m, rectangle, res about the adrilaterals.	the two points (and parallel and perper	Cartesian co-ordinate ply for any two points the formulae for the two points segment connecting from that identify idicular lines) mid-point of the line	 Note: That the graph defined Point by point plotting of bath values), range (output value) Investigate the effect of a at a y = a. f(x) + q, where yellows Point by point plotting of bath bath bath bath bath bath bath bath	bles, graphs, words and form ed by $y=x$ should be known asic graphs defined by $y=x$ should be known asic graphs defined by $y=x$ as $x=x$ should be known as $x=x$ as $x=x$ should be $x=x$ should be $x=x$ as $x=x$ should be $x=x$ should	nulae. Convert flexibly between from Grade 9 $x^2, y = \frac{1}{x} \text{ and } y = b^x$ $x^2, y = \frac{1}{x} \text{ and } y = b^x$ $x^2, y = \frac{1}{x} \text{ and } y = b^x$ $x^2, y = \frac{1}{x} \text{ and } f(x) = b^x, b > 0$ $x^2, y = \cos \theta \text{ and } y = to$	these representations $b>0$ and $b\neq 1$ to disconcepts on the axes (where ap $0,b\neq 1$ and for $\theta\in [0^\circ,360^\circ]$	ver shape, domain (input		
COMPLETED													
SBA	Assignment & mi	d-year exam											

2023/24 ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 10 (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	TRIGONOMETRY	(2D)	STATISTICS			PROBABILITY		FINANCE AND GROWTH			
	Solve two-dimer involving right- a Problems in two		mean. Determine the 2. Measures of central estimate of grouped interval in which the 3. Range as a measure percentiles, quartiles 4. Five number summa and whisker diagram 5. Use the statistical su dispersion), and grap	of dispersion and extens , inter-quartile and semi-i ry (maximum, minimum a	e: Calculation of mean modal interval and sion to include nter-quartile range and quartiles) and box entral tendency and meaningful comments	theoretical probability 2. The use of Venn diagrams following for any two ever • $P(A \text{ or } B) = P(A)$ • A and B are mutually • A and B are compler	+ P(B) - P(A and B) exclusive if $P(A \text{ and } B) = 0$,	eriving and applying the	[A = P(1 + in)] to solve problems population growth Understand the implication	and compound growth form and $A = P(1+i)^n$], including interest, hire p and other real-life proble ation of fluctuating foreign orts, exports, overseas tr	urchase, inflation, ms exchange rates (e.g.,
DATE COMPLETED											
SBA	Test					Test					

2023/24 ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 10 (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	MEASUREMENT		NUMBER PATTERNS	REVISE ALGEBRA	REVISE TRIGONOMETRY & GEOMETRY	REVISE FUNCTIONS	EXAMINATION			ADMIN	PAPER 1 Algebra Number patterns	30 15
	of right-prisms at 2. Study the effect of surface area who dimension by a c 3. Calculate the volumeas of spheres	on volume and en multiplying any constant factor k ume and surface s, right pyramids, combination of those	Patterns: Investigate number patterns leading to those where there is a constant difference between consecutive terms, and the general term (without using a formula – see content overview) is therefore linear								Finance, growth Functions and graphs Probability	10 30 15
DATE COMPLETED											PAPER 2 Statistics	15
TERM 1 INVESTERM 2 ASSIG	R OF SBA TASKS 7 STIGATION/PROJECT GNMENT (15%) AND N (14%) AND TEST (14%)	MID-YEAR EXAM (14%									Analytical Geometry Trigonometry Euclidean Geometry & Measurement	15 40 30