2023/24 ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 8 (TERM 1)



TERM 1	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6		WEEK 7	W	EEK 8	WEEK 9	WEEK 10	WEEK 11
HOURS PER TOPIC		11,5 hrs		9 hrs		2 hrs	9 hrs		7 hrs		4,5 (2,5) hrs	2,5 (4,5) hrs.	
TOPIC, CONCEPTS, SKILLS AND VALUES	Recognise the divided by 0 is used Calculations using the estimations using the estimating and used Calculation technique Use a range of somental calculation in the calculatio	erties done in the previous invision property of 0, when the numbers and all four operations on using calculators where the strategies to perform an ons with whole numbers of and compensating liculator is a number to at least 3-c f whole numbers, by institution on off and compensating liculator is a two quantities of the sing or decreasing of a that involve whole numbers in financial contest asse	hereby any number n whole numbers, appropriate d check written and s including: ag in columns digit whole numbers spection or rs, including: s of the same kind eent kinds (rate) whole is given number in a given bers, percentages	integers Multiply and divi Perform calcular four operations of the control of th	and subtraction with ide with integers tions involving all with integers tions involving all with numbers that , cubes, square roots of integers ers use commutative, distributive dition and	FORMAL ASSESSMENT TASK ASSIGNMENT • Whole numbers • Integers	Divide very common	s with fractions whole numbers and common fractions in fractions ite the squares, cubes, square ite toots of common fractions ite amounts if given percentage se itions and solving problems techniques owledge of reciprocal relationsh common fractions ite amounts if given percentage se ite amounts if given percentage	roots and e increase or hips to e increase or common g grouping, numbers	Multiplicating decimal fractions Calculate the roots and offractions Calculation tectors are the roots and offractions Calculation tectors are the roots and offractions Use knowlestimate the resundant calculation Use round check resu	on of decimal fractions by actions not limited to one ace decimal fractions by decimal the squares, cubes, square cube roots of decimal chniques edge of place value to be number of decimal places lt before performing seing off and a calculator to alts where appropriate	REVISION	FORMAL ASSESSMENT TASK TEST All topics

1

2023/24 ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 8

TERM 1	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6		WEEK 7	W	EEK 8	WEEK 9	WEEK 10	WEEK 11
HOURS PER TOPIC	11,5 hrs			9 hrs		2 hrs	9 hrs			7 hrs		4,5 (2,5) hrs	2,5 (4,5) hrs.
PREREQUISITE SKILL/ PRE- KNOWLEDGE	 Order and com Calculations us estimating and Prime factors of LCM and HCF of by inspection of Solve problems Comparing (ratio) Comparing 	whole numbers to at least and all four operations of using calculators where four numbers to at least 3 factorisation involving whole numbers to at whole numbers to at least 3 factorisation involving whole numbers to at least 3 factorisation involving whole numbers to at least 3 factorisation involving whole numbers to a given ratio where the same and th	n whole numbers, appropriate digit whole numbers digit whole numbers, ars, including: s of the same kind rent kinds (rate)	 Recognise, ord integers Add and subtra Recognise and and associative addition and muintegers Solve problems 	er and compare ct with integers use commutative properties of		denom Multipl mixed denom Conve Use kr fraction calcula Use kr subtra calcula Calcula Calcula	on and subtraction to fractions we ninator is not a multiple of the other ication of common fractions, incommbers, not limited to fractions ninator is a multiple of another orting mixed numbers to common nowledge of multiples and factor in in the simplest form before or ations in the simplest form before or ations in the simplest form order to pations with them attended to the percentage of part of a water percentage increase or decrinumbers.	her cluding s where one n fractions s to write r after to add and perform	decimals Compare a Rounding of Addition an fractions of Multiplication whole numl Division of by whole numl Use knowle estimate the in the result calculations Use rounding	edge of Place value to e number of decimal places t before performing		

2023/24 ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 8 (TERM 2)

TERM 2		WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK (6	WEEK 7	WE	EK 8	WEEK 9	WEEK 10	WEEK 11
HOURS PER TOPIC	- 3 hrs	9 hrs			9 hrs			8 hrs		6,5 hrs		8	hrs	
TOPIC, CONCEPTS, SKILLS AND VALUES	FORMAL ASSESSMENT TASK INVESTIGATION NB Administer an investigation on any one of the term 2 topics before teaching it	exponential for Compare and r Compare and r Imited to positi Calculations using Establish gene - a ^m × a ⁿ - (a ^m) · a - (a × t) ⁿ - a ⁰ = 1 Recognise and using numbers cube roots Perform calcula numbers that ir roots of integer Calculate the s rational number Solving problems	te and represent with mepresent integers epresent numbers ve exponents in exponent	in exponential form in exponential form in scientific notation, onential form ents, limited to: n ate laws of operations ats and square and four operations with abes, square and cube uare and cube roots of	Revise investig geometric patt between numb Represe form Not limite constant Represe Represe served Represe Represe Describe and jobserved relati	gate and extend numerns looking for relationers, including patternated in physical or diagram of the sequences involved difference or rationer's own creation and in tables gate and extend numerns looking for relationers, including pattern	eric and onships s: Ingram ving a eric and onships s eric and onships s eric and onships s	Revise values relation Revise relation Revise relation Extend values relation quivalent Revise equivathe sa present In the sa present Extend equivathe sa present Extend equivathe sa present Extend equivathe sa present	e determine, interpalence of different on the me relationship or	values, output ns and values, output ns and tions ret and justify descriptions of rule es aret and justify descriptions of	Recognise writing algebraic Recognise and class algebraic Recognise exponents Use commodistributive and laws Add	e and identify conventions for pebraic expressions Identify like and unlike terms in expressions and identify coefficients and in algebraic expressions implify algebraic expression mutative, associative and e laws for rational numbers o exponents to: and subtract like terms in ibraic expressions	REVISION	FORMAL ASSESSMENT TASK TEST All term 1 & 2 topics
PREREQUISITE SKILL/ PRE- KNOWLEDGE		 form: a^b = a a Recognise and with numbers in roots Perform calcula numbers in exp 5, and square a 	× a × a × for use the appropria nvolving exponent ations involving all conential form, limited and cube roots in contexts involving in contexts involving and cube roots	umbers in exponential b number of factors ate laws of operations s and square and cube four operations using ited to exponents up to ving numbers in	geometric patt between numb Describe and j	d extend numeric and erns looking for relati pers ustify the general rule ionships between nur	onships es for	Determine input values, output values or rules for patterns and relationships using flow diagrams, tables and formulae Determine, interpret and justify equivalence of different descriptions of the same relationship or rule presented verbally, in flow diagrams, in tables by formulae and by number sentences			relationsh form • Identify va	e and interpret rules or ips represented in symbolic ariables and constants in given and/or equations		

2023/24 ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 8 (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
HOURS PER TOPIC		9 hrs	81	hrs	9 h	rs	12,5 hrs			8	hrs
TOPIC, CONCEPTS, SKILLS AND VALUES	TASK PROJECT NB. The project must cover a combination of	xpand and simplify algebraic xpressions se commutative, associative and istributive laws for rational numbers and ws of exponents to: Add and subtract like terms in algebraic expressions Multiply integers and monomials by: Monomials Binomials Trinomials Divide the following by integers or monomials: Monomials Binomials Trinomials Trinomials Binomials Binomials	Using addi inverses	in equations to	cut by a training problems Solve geometric	escribe pairs of : ar lines lines parallel lines	- The size of ang - The sides and be their sides and write clear their sides and angles between: - Parallelogram - Rectangle - Square - Rhombus - Trapezium - Kite Constructions PROVIDE LEARNERS W FIGURES TO INVESTIGATE QUADRILATERALS Investigating properties Investigate sides and The sum of the	ar definitions of triangle tinguishing between: agles gles angles ITH ACCURATELY CATE THE PROPERTIE of geometric figures in a triangle, focusing interior angles of triangles in an equilateral trocase angles of an isostar definitions of quadrist, distinguishing ITH ACCURATELY CATE THE PROPERTIE of geometric figures angles in quadrilateral interior angles of quadrilateral interior angles of quadrilateral interior angles of particular angles in quadrilateral interior angles of particular interior angles of quadrilateral interior angles of particular interior angles of angles in quadrilateral interior angles in quadrilateral interior angles of angles in quadrilateral interior angles in q	CONSTRUCTED ES OF TRIANGLES Ig on: Igles	REVISION	FORMAL ASSESSMENT TASK TEST All term 3 topics

2023/24 ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 8

TERM 3	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10	WEEK 11
HOURS PER TOPIC	9	8 hrs		9 hrs		12,5 hrs			8 hrs		
PREREQUISITE SKILL/ PRE- KNOWLEDGE		Recognise and interpret rules or relationships represented in symbolic form Identify variables and constants in given formulae and/or equations	Problem situation Analyse and intersentences that describe a given Solve and composentences by:	erpret number a situation lete number mprovement umerical value of an ubstitution s and constants in	Definitions of:	s s	sides and angles, for - Equilateral trian - Isosceles trian - Right-angled tri - Describe, sort, name - Length of sides - Parallel and pe - Size of angles - Describe and name	ngles gles iangles and compare quadrila s rpendicular sides (right-angles or not)	iterals in terms of:		

2023/24 ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 8 (TERM 4)

TERM 4	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10
HOURS PER TOPIC	8 hrs		9	hrs	91	3,5 hrs		12 hrs		
TOPIC, CONCEPTS, SKILLS AND VALUES	trends and features: Linear or non-linear Constant, increasing of Maximum or minimum Discrete or continuous Drawing graphs Draw global graphs from problem situation, identification.	or decreasing or m given descriptions of a entifying features listed	triangle to develop the Theorem of P	the lengths of the sides of a right-angled bythagoras t-angled triangle or not if the lengths of own alculate the missing length in a right-	 AREA AND PERIMETER OF 2-D SHAPA Area and perimeter Use appropriate formulae to calculate the areas of polygons, to a decomposing them into rectangles at the use and describe the relationship be circumference of a circle in calculation. Use and describe the relationship be calculations. Calculations and solving problems. Solve problems, with or without a capolygons and circles to at least 2 de. Use and describe the meaning of the involving circles. Use and convert between appropriating the material m² ↔ km² 	te perimeter and area of: circles at least 2 decimal places, by and/or triangles etween the radius, diameter and ons etween the radius and area of a circle in alculator, involving perimeter and area of cimal places e irrational number Pi (π) in calculations	REVISION OF TERM 3 AND 4 WORK	EXAMINAT PAPER 2	ASSESSMENTION PAPER om term 1-4	_
PREREQUISITE SKILL/ PRE- KNOWLEDGE	LL/ PRE-		Knowledge of squares and square r	oots of whole numbers	 Geometry of 2D shapes Algebraic equations Calculate the squares, cubes, squar numbers 					