2025 ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 9 (TERM 1)

TERM 1	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10
HOURS PER TOPIC	9 hrs.		9 hrs.		9 hrs.		13,5 hrs.			4,5 hrs.
TOPICS, CONCEPTS AND SKILLS	and distinguish – Natural numbe numbers, inte	al number gnizing, defining ing properties of: rs, whole gers, rational tional numbers ors ors orisation of LCM and HCF in contexts e direct that involve , percentages ctions in its such as:	skills) Calculations w Revise: - Addition an integers - Multiplication with integers - Perform calculation involving a with integers - Perform calculation involving all four with numbers the squares, cubes and cube roots Properties of Revise: - Commutating and distribe of addition multiplicated. - Additive and calculation and calculation in the squares of addition multiplicated.	d subtraction with on and division lculations all four operations respectively the square roots of integers fintegers we, associative outive properties	Calculations usi exponential form revised skills) Revise	general laws of a^{m+n} a^{m+n} $a^{m} \times n$ an $x \times t^n$ eneral laws of include: ponents tions operations	- Identify and classify - Recognise and ider expressions - Recognise and different inomials Expand and simplify algorithms. Revise the following: use laws for rational number of a comparison of the following trinomials - Add and subtract like - Multiply integers and the square of a bind of the following trinomials - Simplify algebraic errors or the square of a bind of the following trinomials - Simplify algebraic errors or the square of a bind of the following trinomials - Determine the square of a bind of the square of the	ntify conventions for writing like and unlike terms in a ntify coefficients and exponentiate between monominate expressions. It is in the commutative, as ers and laws of exponentiate terms in algebraic expressions involving the expressions with expressions terms. IMON FRACTIONS AND ATIONS WITH EXPRESSIONS WITH EXPRESSIONS INVOLVING THE EXPRESSIONS INVOLVING THE EXPRESSIONS WITH EXPRESSIONS INVOLVING THE EXPRESSIONS INVOLVING THE EXPRESSIONS INVOLVING THE EXPRESSIONS WITH EXPRESSIONS INVOLVING THE EXPRESSION	algebraic expressions onents in algebraic nials, binomials and associative and distributive s to: ressions fials, binomials, trinomials, above operations and cube roots of single DECIMAL FRACTIONS FIONS (Page 122 and 123 clude: fials)	REVISION

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PREREQUISITE SKILL OR PRE- KNOWLEDGE

- The commutative; associative; distributive properties of whole numbers
- 0 in terms of its additive property (identity element for addition)
- 1 in terms of its multiplicative property
 (identify element for multiplication)
- Recognise the division property of 0, whereby any number divided by 0 is undefined
- Perform calculations involving all four operations with numbers that involve squares, cubes, square roots and cube roots of integers
- Calculate the squares, cubes, square roots and cube roots of rational numbers
- Recognise and use the appropriate laws of numbers involving exponents and square and cube roots

Common and decimal fractions
Algebraic language

Factors and multiples

Expand and simply algebraic expressions

Substitution

Determine the squares, cubes, square roots and cube roots of single algebraic terms or like algebraic terms

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ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 9 (TERM 2)

TERM 2		WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	WEEK 8
URS PER PIC			9 hrs	9) hrs	4,5 hrs		9 hrs	4,5 hr
DNCEPTS ID SKILLS IN ir	ASSESSMENT TASK	involve: - Common factor - Difference two strinomials of the common service of the com	ic expressions braic expressions that ctors wo squares ne form:	- Set up ed describe situation - Analyse a equation given si - Solve equinspection - Using admultiplication using late and solve equation tables of the Extend solve include: - Using factors - Equation	following: revised skills) quations to e problem as and interpret as that describe a tuation uations by ditive and cative inverses ws of exponents uations by ditiution in as to generate f ordered pairs ang equations to	RELATIONSHIPS Input and output values Determine input values, output values or rules for patterns and relationships using: Flow diagrams Tables Formulae Equations Equivalent forms Determine, interpret and justify equivalence of different	graphs with following fe - x-interce - Gradien Drawing graphs • Use tables points and cartesian p • Extend draw focus on: - Drawing li equations	focus on features of a special focus on the atures of linear graphs: ept and <i>y</i> -intercept at of ordered pairs to plot draw graphs on the plane. wing of graphs with special mear graphs from given ning equations from given	REVISION

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PREREQUISITE SKILL OR PRE- KNOWLEDGE	Common and decimal fractions • Algebraic language	Write number sentences to describe problem situations
	Factors and multiples Expand and simply algebraic expressions Substitution Determine the squares, cubes, square roots and cube roots of single algebraic terms or like algebraic terms	 Analyse and interpret number sentences that describe a given situation Solve and complete number sentences by: Inspection Trial and improvement Identify variables and constants in given formulae or equations Use substitution in equations to generate tables of ordered pairs Extend solving equations to include: Using additive and multiplicative inverses Using laws of exponents

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ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 9 (TERM 3)

TERM 3		WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 5	WEEK 6	WEEK 7	WEEK 8	WEEK 9	WEEK 10
HOURS PER TOPIC			9 hrs	18 hrs			9 hrs		9 hrs		4.5 hrs	
TOPICS, CONCEPTS AND SKILLS	FORMAL ASSESSMENT TASK PROJECT The project should cover a combination of topics from term 1 to term 3 and must be completed before the end of term 3	relationship between - Perpendicula - Intersecting II - Parallel lines cut by a Solving problems Solve geometric properties	ear descriptions of the en angles formed by: ar lines ines oblems using the een pairs of angles described	angles, distingu - Equilatera - Isosceles - Right-ang Constructions PROVIDE LEARNEF INVESTIGATE THE Investigate the athe exterior ang Classifying 2D shap Revise and write angles and diage - Paralleloge - Rectanglee - Square - Rhombus - Trapezium - Kite Constructions PROVIDE LEARNEF INVESTIGATE THE Investigate side on: - Exploring the polygons - The diage - Parallelog Similar and congrue Through investigate side on: - Through investigate side on: - Exploring the polygons - The diage - Parallelog Similar and congrue Through investigate side on: - Exploring the polygons - The diage - Parallelog Constructions - Parallelog Similar and congrue - Through investigate side on: - Exploring the polygons - The diage - Parallelog Similar and congrue - Through investigate side on: - Exploring the side of the side of the side on: - Exploring the side of the si	es and definitions of ishing between: all triangles triangles led triangles led triangles and triangles and triangles in a triangle and triangles in a triangle and triangle and triangles and triangles and triangles and angles. A company of the interior and triangles and triangles gation, establish the gation, establish the gation, establish the	TELY CONSTRUTELY CONSTRUTELY CONSTRUCTELY CONSTRUCTELY CONSTRUCTED	ICTED FIGURES TO Interest of their sides, interms of their sides, interms of their sides, interest of their sides, intere	AREA AND PERIME SHAPES Use appropriate conversions be solve problems perimeter and a — Polygons — Circles	e formulae and tween SI units, to and calculate	Use appropria between SI un		REVISION

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PREREQUISITE SKILL OR PRE- KNOWLEDGE	Recognise and describe pairs of angles formed by: Perpendicular lines Intersecting lines Parallel lines cut by a transversal Solve geometric problems using the relationships between pairs of angles described above	Identify and write clear definitions of types of triangles focusing on sides and angles	Determine whether a triangle is a right-angled triangle or not if the length of the three sides of the triangle is known Use the Theorem of Pythagoras to calculate a missing length in a right-angled triangle, leaving irrational answers in surd form Use of appropriate formulae to calculate perimeter and area of polygons to include	 Use of appropriate formulae to calculate the surface area, volume and capacity of cubes and rectangular prisms Describe the interrelationship between surface area and volume of the objects mentioned above Use and convert between appropriate SI units, including: mm² ↔ cm² ↔ m² ↔ km² mm³ ↔ cm³ ↔ m³ ml (cm²) ↔ l ↔ kl
			area of polygons to include circles to at least 2 decimal places and convert between appropriate SI units, including and up to km² Calculate perimeter and area of complex figures	ml (cm³) ↔ l ↔ kl

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ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 9 (TERM 4)

TERM 4	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6	WEEK 7	
HOURS PER TOPIC	91	nrs		9 hrs	13,5 hrs			
TOPICS, CONCEPTS AND SKILLS	TRANSFORMATION GEOMETRY Transformations Recognise, describe and perform transformations with points, line segments and simple geometric figures on a co-ordinate plane, focusing on: - Reflection in the <i>x</i> -axis or <i>y</i> - axis - Reflection in the line <i>y</i> = <i>x</i> - Translation within and across quadrants		relationships between in Pepresented in physic involving a constant of represented in tables Describe and justify the			REVISION		
PREREQUISITE SKILL OR PRE- KNOWLEDGE	Translations, reflections, rotations enlargements and reductions with geometric figures and shapes on grid paper			values and rules for patterns given in input-output diagrams rent descriptions of the same relationship or rule presented by a number sentence				