2023/24 ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 7 (TERM 1)



TERM 1	WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK	5 WEEK 6	WEEK	K 7 WEEK 8	WEEK 9	WEEK 10	WEEK 11
HOURS PER TOPIC	,	13,5 hrs	3	2	hrs	9 hrs		11,5 hrs	4,5 (3,5) hrs	3,5 (4,5) hrs	
TOPICS, CONCEPTS AND SKILLS Ca N. ar N SG * PREREQUISITE SKILL OR PRE- KNOWLEDGE .	Properties Calculation Calculation techni Use any strategy calculations of w Long division Adding, sub Estimation Rounding on Using a cale N.B. Calculator is answer Multiples and factor Ising problems Comparing Comparing Comparing Solve problems Comparing Profit, loss Budgets Accounts Budgets Accounts Simple inte Order, compare Rounding off to All operations w Multiples and factor Rounding off to All operations w Multiples and factors of	wing: and comparing who as of operations with ons using all operat iques by to perform and ch whole numbers inclue on btracting and multip off and compensatir lculator only used to chec tors rs of numbers to at nd HCF of whole nu if involving whole nu if of two or more qual if two quantities of di a given ratio where if that involve whole is in financial context and discount erest erest erest erest erest erest erest erest and pla the nearest 5, 10, 7 with whole numbers actors of 3-digit who if 2-digit whole number are actors with whole involve whole numbers actors of 3-digit who if 2-digit whole number actors with whole involve whole numbers in the nearest 5, 10, 7 with whole numbers in the nearest 5, 10, 7 with whole numbers in the nearest 5, 10, 7 with whole numbers in the nearest 5, 10, 7 with whole numbers in the nearest 5, 10, 7 with whole numbers in the nearest 5, 10, 7 with whole numbers in the nearest 5, 10, 7 with whole numbers in the nearest 5, 10, 7 with whole numbers in the nearest 5, 10, 7 with whole numbers in the nearest 5, 10, 7 with whole numbers in the nearest 5, 10, 7 with whole numbers in the nearest 5, 10, 7 with whole numbers in the nearest 5, 10, 7 with whole numbers in the nearest 5, 10, 7 with whole numbers in the nearest 5, 10, 7 with whole numbers in the nearest 5, 10, 7 with whole numbers in the nearest 5, 10, 7 with whole numbers in the nearest 5, 10, 10 with whole numbers in the nearest 5, 10, 10 with whole numbers in the nearest 5, 10, 10 with whole numbers in the nearest 5, 10 with whole numbers in the neares	whole numbers ions with whole numb neck written and ment uding: blying in columns ng ck the correctness of least 3-digit whole numbers by inspection mbers, including: antities of the same kind ifferent kinds (rate) the whole is given numbers, percentage atts such as: ce value of 9-digit numbers of the numbers with the whole is given numbers, percentage atts such as:	ASSIGNMI Whole in N.B. Assign done in claim all the mbers or and (ratio) is and in the mbers or in the modern and in th	ENT TASK ENT numbers nment to be ss over 2 hrs Ca Pe So .	MMON FRACTIONS: dering, comparing and simplifying common fractions Extend to thousandths culations with fractions Addition and subtraction of fractions including mixed numbers denominator is not a multiple of the other Multiplication common fractions, including mixed numbers, not fractions where one denominator is a multiple of another culation techniques Convert mixed numbers to common fractions in order to perfor calculations with them Use knowledge of multiples and factors to write fractions in the form before or after calculations Use knowledge of equivalent fractions to add and subtract con fractions reentages Calculate the percentage of part of a whole Calculate percentage increase or decrease of whole numbers ving problems Solve problems in contexts involving common fractions and minumbers, including grouping and sharing; and finding fractions numbers Solve problems in contexts involving common fractions and minumbers including grouping and sharing; and finding fractions numbers Solve problems in contexts involving percentages Ordering and comparing fractions specifically tenths and hundred addition and subtraction of common fractions, including mixed where one denominator is a multiple of another Recognise and use equivalent forms of common fractions with digit denominators Finding fractions of whole numbers Finding percentages of whole numbers Equivalence between fractions and percentage forms of the safety and the process of the safety and percentage forms of the saf	where one limited to m simplest mon continued to continue to conti	DECIMAL FRACTIONS: Ordering and comparing decima Count forwards and backwards at least 3 decimal places Place value of decimals to at le Order and compare decimal fractions in decimals Rounding off decimal fractions in places Calculations with decimal fraction to decimal places Calculations with decimal fraction to decimal places Multiply decimal fractions to at least whole numbers Decimal fractions to at least decimal fractions to at least 3 decimal places by whous the decimal places in the result of decimal places of the sale. Recognise equivalence between decimal fraction forms of the sale. Recognise equivalence between decimal fraction and percentage number. Count forwards and backwards at least two decimal places Compare and order decimal fractions in decimal places Compare and order decimal fractions in the place of digits to at least in the places. Rounding off decimal fractions of decimal places Multiplication of decimal fractions in the places. Multiplication of decimal fractions. Equivalence between fractions.	ast 3 decimal places actions to at least 3 decimal places actions to at least 3 decimal places are to at least 2 decimal at least 3 decimal places by at 2 decimal places by at 1 decimal place and edecimal fractions to a decimal fractions to a decimal fractions are common fraction and ame number are forms of the same. The decimal fractions to action to at least two at least 1 decimal fractions of at least 1 decimal at least 1 d	REVISION	FORMAL ASSESSMENT TASK TEST All topics

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NATIONAL ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 7 (TERM 2)

TERM 2		WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6 WEEK 7		WEEK 8	VEEK 8 WEEK 9		WEEK 11
HOURS PER TOPIC		4,5 h	rs	9 hrs			9 hrs		9 hrs		4 hrs	3 hrs
TOPICS, CONCEPTS AND SKILLS	FORMAL ASSESSMENT TASK INVESTIGATION N.B. Administer an investigation on any ONE of the term 2 topics before teaching it Comparing a exponential Compare exponentian Calculations form Recogniss operations and squail Calculation using num		at least 12^2 and their least 6^3 and their cube at ing numbers in at whole numbers in $a \times a \times a \times$ for b bers in exponential e appropriate laws of rs involving exponents	proportion of addition for integers			between numbers, in Represented in p Not limited to seconstant Difference or rat Of learner's own Represented in t Describe and justify t	patterns Id numeric and oking for relationships cluding patterns: ohysical or diagram form quences involving a form creation ables	FUNCTIONS AND RELATIONSHIPS Input and output values Determine input values, output values or rules for patterns and relationships using: Flow diagrams Tables Formulae Equivalent forms Determine, interpret and justify equivalence of different descriptions of the same relationship or rule presented: Verbally In flow diagrams In tables By formulae By number sentences		REVISION	FORMAL ASSESSMENT TASK TEST All term 1 & 2 topics
PREREQUISITE SKILL OR PRE- KNOWLEDGE		All four operations with whole numbers Comparing whole numbers		Number line Addition and subtraction with whole numbers		All operations with whole numbers Addition and subtraction as inverse operations Multiplication and division as inverse operations (with whole numbers) Addition and subtraction of integers Investigate and extend numeric and geometric patterns looking for relationships in patterns not limited to constant difference or ratio Describe the general rules for the observed relationships with patterns limited to constant difference or ratio		Input and output values with whole numbers Equivalent representations of different descriptions of the same relationship or rule presented Verbally In a flow diagram In a table By a number sentence Rules for calculating the areas of squares and rectangles Rules for calculating the volume of rectangular prisms				

2023/24 ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 7 (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			13,5	hrs		9	hrs	9 hrs		9 hrs		3hrs
TOPICS, CONCEPTS AND SKILLS	CS, N.B. The project must cover a combination of CONSTRUCTION OF GEOMETRIC FIGURES Measuring angles					their sides and angles, focu - Equilateral triangles - Isosceles triangles - Right-angled triangles - Describe, sort, name and conf: - Length of sides - Parallel and perpendicu - Size of angles (right and similar and congruent 2D shist) - Recognise and describe sind comparing: - Shape - Size Solving problems - Solve simple geometric problems	ompare triangles according to using on: ompare quadrilaterals in terms ular sides ngles or not)	TRANSFORMATION GEOMETRY Transformations Recognise, describe and perform translations, reflections and rotations with geometric figures and shapes on squared paper Identify and draw lines of symmetry in geometric figures Enlargements and reductions Transformations Draw enlargements and reductions Transformations Transform		REVISION	FORMAL ASSESS TEST All topics	SMENT TASK
PREREQUISITE SKILL OR PRE- KNOWLEDGE			s and curved sides les and their defin			Naming of shapes according Difference between a rectary Types of angles	_	Symmetry Use transformation terms shapes Increase/decrease the si same ratio	·			

2023/24 ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 7 (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 h	8 hrs 9 hrs		9 1	9 hrs		rs	8 hrs		
TOPICS, CONCEPTS AND SKILLS	and area of: — Squares — Rectangles — Triangles Calculations and solving	of regular and irregular ae to calculate perimeter problems g perimeter and area of ecimal place	SURFACE AREA AND VOLUME OF Surface area and volume Use appropriate formulae to calculations and solving problems Solve problems involving surface Use and convert between approp mm² ← cm² mm³ ← cm³ solve equivalence between units w mm³ ← 1 mm² mm³ ← 1 mm² ← 1 mm² mm³ ← 1 m	ween surface area and volume of area, volume and capacity riate SI units, including:	in own environment Select appropriate sources for the family, newspapers, books, maga: Distinguish between samples and samples for investigation Design and use simple questionnation of the property of the	economic, and environmental issues e collection of data (including peers, zines) I populations and suggest appropriate aires to answer questions with: The appropriate appropriate and record data using tween ungrouped numerical data by Cores in a data set and determine the to determine the spread of the data Attechnology to display and interpret cluding: Traphs als The appropriate are appropriated to: The appropriate appropriated to: The appropriated	REVISION		FORMAL ASSESS EXAMINATION PAPER 1 AND PA All topics from term	PER 2

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2023/24 ANNUAL TEACHING PLANS: MATHEMATICS: GRADE 7

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 h	9 hrs		9 hrs			8 hrs	
PREREQUISITE SKILL OR PRE- KNOWLEDGE	Find areas of regular are counting squares on gr Relationship between p	 Perimeter using rulers or measuring tapes Find areas of regular and irregular shapes by counting squares on grids Relationship between perimeter and area of rectangles and squares Conversions between SI units of length Area of 2D shapes by counting the number of squares Volume of 3D objects by counting the number of current perimeters. 		e number of squares	Complete data cycle					