ENGLISH MATHEMATICS _2022 WEEKLY TEACHING PLAN _ GRADE 8

TERM 2	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6		Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Hours per	4 days 3.5 hrs	4 days 4 hrs	4 days 3.5 hrs	4 days 3.5 hrs	4 days 3.5 hrs	5 days 4.5 hrs		5 days 4.5 hrs	5 days 4.5 hrs	5 days 4.5 hrs	5 days 4.5 hrs	3 days 3 hrs	5 days 4.5 hrs
week	0.0 1.10	4 1113	0.0 1.11 0	0.0 1	0.0 1110	4.01110		4.0 1110	4.0 1110	4.0 111 5	4.0 1110	01110	4.0 1110
Hours per topic	5	hrs.	10	0 hrs		9 hrs.		3 hrs		8 hrs.	4.5 hrs.	3 hrs	4.5 hrs
Topic, concepts, skills and values	Calculations we fractions Revise - Multiplic fractions one decompositions on decompos	cation of decimal s by decimal s not limited to cimal place of decimal s by decimal s te the squares, square roots and ots of decimal s ems	Comparing and numbers in exponential four operanumbers and cuber souts. Revise compare and integers in elementary in elementary in elementary in elementary in elementary in exponential for exponents, limited to positive exponents and exponents are cuber oots. Recognise and appropriate limited to positive exponents are cuber oots. Perform calculate for exponents and cubes, square of integers. Calculate the square and contained exponential for ex	conential form pare and represent ers in exponential and represent exponential form and represent exponential form and represent exponents are an another exponents. In the state of the	Investigate Revise numeric pattern relation number - rep dia - not inve diff - of I - rep Extend numeric pattern relation number represe Descri genera relation number algebra	e and extend processing the second geometric is looking for a ships between a second geometric is looking a constant of the second geometric investigate and geometric is looking for a ships between a ships	externs: vsical or ences nt reation les d extend c externs ally ne ved or in	FORMAL ASSESSMENT TASK INVESTIGATION • Exponents • Patterns	RELA Input and of Revise, of values, of rules for relations! Input and of Revise, of values, of rules for relations! Input and of values, of rules for rules for rules for relations! Input and of values, of rules for	letermine input utput values or patterns and hips using: diagrams s ulae etermine input utput values or patterns and hips using s orms etermine, interpret y equivalence of descriptions of the ationship or rule d: ally w diagrams bles rmulae umber sentences etermine, interpret y equivalence of descriptions of the ationship or rule d: d: diby equivalence of descriptions of the ationship or rule d by equations	expressions	ASSESM TI All Term 1	ENT TASK EST and Term 2 pics
Prerequis ite skill/ pre- knowledg e	Count forwa backwards iCompare ar fractions		numbers in $a^b = a \times a \times a$ number of fa • Recognise a	exponential form: $a \times a \times$ for b	numeri pattern relation	gate and extend c and geometric s looking for aships between rs, including pa			output va patterns using:	e input values, lues or rules for and relationships diagrams s	Recognize and interpret rules or relationships represented in symbolic form		

 Addition and subtraction of decimal fractions of at least three decimal places Multiplication of decimal fractions by whole numbers and decimals Division of decimal places value to estimate the number of decimal places in the result before performing calculations Use rounding off and a calculator to check results where appropriate Exponents and square and cube roots of decimal fractions involving all four operations using numbers in exponential form, all four operations using numbers in exponents up to 5, and square and cube roots Solve problems in contexts involving numbers in exponential form Use knowledge of Place value to estimate the number of decimal places in the result before performing calculations Use rounding off and a calculator to check results where appropriate 	Rounding off decimal	with numbers involving	represented in physical or	formulae	Identify variables and	
	 fractions Addition and subtraction of decimal fractions of at least three decimal places Multiplication of decimal fractions by whole numbers and decimals Division of decimal fractions by whole numbers Use knowledge of Place value to estimate the number of decimal places in the result before performing calculations Use rounding off and a calculator to check results 	exponents and square and cube roots • Perform calculations involving all four operations using numbers in exponential form, limited to exponents up to 5, and square and cube roots • Solve problems in contexts involving numbers in	diagram form - not limited to sequences involving a constant difference or ratio - of learner's own creation - represented in tables • Describe and justify the general rules for observed relationships between	Determine, interpret and justify equivalence of different descriptions of the same relationship or rule presented:	constants in given	

TERM 3	Week 1 4 days	Week 2 5 days	Week 3 5 days	Week 4 3 days		eek 5 days	Week 6 5 days	Week 7 5 days		Week 8 5 days	Week 9 5 days	Week 10 5 days	Week 11 5 days
Hours per week	3.5 hrs	4.5 hrs	4.5 hrs	2.5 hrs	4.9	4.5 hrs 4.5 hrs 4.5 h		rs	4.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs	
Hours per topic	8 h	8 hrs.		9 hrs.			9 hrs.		12.5 hrs.		4.5 hrs.	4 hrs	
Hours per	ALGEBRAIC E Expand and simplify expressions Use commutative distributive laws from and laws o exported algebraic expressions Multiply integers — monomials — binomials — trinomials — trinomials — binomials — binomials — binomials — binomials — trinomials — binomials — binomials — binomials — binomials — trinomials — trinomials — trinomials — trinomials — trinomials — binomials — trinomials — trinomials — binomials — trinomials — binomials — trinomials — trinomials — binomials — binomials — binomials — trinomials — binomials — binomials — binomials — trinomials — binomials — binom	expressions and monomials by: expressions and word in the sions and monomials by: expressions are expressions and expressions and monomials by: expressions and monomials are expressions are operations are expressions are operations are expressions are	Equations • Use substitution tables of ordered • Extend solving - using additional inverses	RAIC EQUATIONS	enerate de:	Angle relation	Y OF STRAIGHT LIN tionships ize and describe pairs by: pendicular lines rsecting lines allel lines cut by a trar	s of angles nsversal ing the	Classifyir Identify of triar and are between the constitution of	regard write clear angles in terms of angles, distinguisher: quilateral triangles osceles triangles of tructions ELEARNERS Water CONSTRUCTION TIES OF TRIAN atting properties of figures attigate the angles de size of angles are size of angles are sides and basen isosceles triangles are sides and basen isosceles triangles are sides and basen isosceles triangles are and angles, districtions are clarificated and angles, districtions are clarificated a	r definitions fitheir sides hing es sigles ITH UCTED ATE THE GLES of sin a erior angles in an ee e angles of gle r definitions ms of their inguishing	4.5 hrs. REVISION	FORMAL ASSESMENT TASK TEST All topics
									PROVIDE ACCURA	E LEARNERS W TELY CONSTR TO INVESTIGA	UCTED		

			T		
				PROPERTIES OF	
				QUADRILATERALS	
				Investigating properties of geometric figures Investigate sides and angles in quadrilaterals, focusing on: the sum of the interior angles of quadrilaterals the sides and opposite angles of parallelograms Similar and congruent 2D shapes Identify and describe the properties of congruent shapes Identify and describe the properties of similar shapes Solving problems	
				Solve geometric problems	
				involving unknown sides and angles in triangles and quadrilaterals, using known properties and definitions.	
Prerequis ite skill/ pre- knowledg e	 Recognize and interpret rules or relationships represented in symbolic form Identify variables and constants in given formulae and/or equations 	 Write number sentences to describe problem situations Analyse and interpret number sentences that describe a given situation Solve and complete number sentences by: inspection trial and improvement Determine the numerical value of an expression by substitution. Identify variables and constants in given formulae or equations 	 Definitions of: Line segment Ray Straight lines Parallel lines Perpendicular lines 	 Describe, sort, name and compare triangles according to their sides and angles, focusing on: equilateral triangles isosceles triangles right-angled triangles Describe, sort, name and compare quadrilaterals in terms of: length of sides parallel and perpendicular sides size of angles (right-angles or not) Describe and name parts of a circle Recognize and describe similar and congruent figures by comparing: 	
				shapesize	

N.B. BY THE END OF TERM 3, LEARNERS SHOULD HAVE COMPLETED A PROJECT AND A TEST. SEE NOTES ON PROJECT FROM ABRIDGED SECTION 4 OF CAPS.

TERM 4	Week 1 4 days	Week 2 5 days	Week 3 5 days	Week 4 5 days:	Week 5 Week 6 5 days 5 days		Week 7 5 days	Week 8 5 days	Week 9 5 days	Week 10 3 days
Hours per week	3.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs	3 hrs	
Hours per topic	8 hrs.		4.5 hrs.	4.5 hrs.	9 hrs.		4.5 hrs	4.5 hrs.	7.5	hrs
Topic, concepts, skills and values	Drawing graphs Draw global graphs from given descriptions of a problem situation, identifying features listed above Use tables or ordered pairs to plo points and draw graphs on the Cartesian plane Analyse and interpret global		Transformations Recognize, describe and perform transformations with points on a coordinate plane, focusing on: reflecting a point in the X-axis or Y-axis translating a point within and across quadrants Recognize, describe and perform transformations with triangles on a co-ordinate plane, focusing on the co-ordinates of the vertices when: reflecting a triangle in the X-axis or Y-axis translating a triangle within and across quadrants	Develop and use the Theorem of Pythagoras Investigate the relationship between the lengths of the sides of a right-angled triangle to develop the Theorem of Pythagoras Determine whether a triangle is right-angled triangle or not if the lengths of the three sides of the triangle is known Use the Theorem of Pythagoras to calculate the missing length in a right-angled triangle, leaving irrational answers in surd form.	AREA AND PE SHA Area and perimete Use appropriate calculate perimicircles Calculate the anat least 2 decimidecomposing the and/or triangles Use and describetween the raccircumference calculations Use and describetween the raccircle in calculations Use and describetween the raccircle in calculations Solve problems calculator, invocarea of polygon least 2 decimal Use and descrithe irrational nucalculations invocalculations invocalculatio	REVISION OF TERM 3 AND 4 WORK		FORMAL ASSESMENTASK TEST All Term 3 and Term 4 to		
Prerequisite skill/ pre- knowledge	 Analyse and interpret global graphs of problem situations, with special focus on the following trends and features: linear or non-linear constant, increasing or decreasing Draw global graphs from given descriptions of a problem situation, identifying features listed above 		 Recognise, describe and perform translations, reflections and rotations with geometric figures ad shapes on squared paper Identify and draw lines of symmetry in geometric figures 	Knowledge of squares and square roots of whole numbers	 Geometry of 2- Algebraic equa Calculate the sisquare roots ar rational number 	tions quares, cubes, and cube roots of				