ENGLISH MATHEMATICS _2022 WEEKLY TEACHING PLAN _ GRADE 7

TERM 1	Week 1 3 days	Week 2 5 days	Week 3 5 days	Week 4 5 days:	Week 5 5 days			Week 8 5 days						
Hours per week	2.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs	3	4.5 hrs	4.5 hrs	4.5 hrs 4.5		5 hrs 4.5 hrs		4 hrs
Hours per topic	2.5 hrs.		13.5 hrs.		4.5 hrs	2 hrs.		9 hrs	4 hrs.		2 hrs.	4 hrs		
Topics, concepts and skills	REVISION	who Prop with Calculation Use a rai perform a mental ca numbers long o addin multip estim round comp using Multiples a List prime to at leas numbers Find the whole nu or factori Solving pro Solve pro numbers Comp quant (ratio) Comp differe Shari	ne following ering and colle numbers perties of operations with abers In technique and check was alculations including: division g, subtractions including: division g, subtraction ling off and ensating a calculation at a calculation before a calculation of the factors of the collection of the colle	omparing coerations coeration coerati	 Mental calculations Determine squares to at least 12² and their square roots Determine cubes to at least 6³ and their cube roots Comparing and representing numbers in exponential form Compare and represent whole numbers in exponential form: a³ = a × a × a × for b number of factors Calculations using numbers in exponential form Recognize and use the appropriate laws of operations with numbers involving exponents and square and cube roots Calculations involving all four operations using numbers in exponential form, limited exponents up to 5, and square and cube roots 	FORMAL ASSESSMENT TASK ASSIGNMENT • Whole numbers • Exponents	Ordering, or simplifying. Extend to Calculation Addition fractions numbers denominating the other. Multiplications fractions denominating another. Calculation Convert in common perform of the simplifying after calculated part of a common. Percentage Calculated part of a convert of a common. Calculated part of a convert o	ation common , including mixed a, not limited to where one ator is a multiple of n techniques mixed numbers to fractions in order to calculations with them wledge of multiples ors to write fractions in lest form before or culations. wledge of equivalent to add and subtract fractions es e the percentage of whole e percentage increase ase of whole numbers oblems oblems	Ordering and comparing decimal fractions Count forwards and backwards in decimal fractions to at least 3 decimal places Place value of decimals least 3 decimal places Order and compare defractions to at least 3 decimals Rounding off decimal fractions to at least 2 decimal places	s to at	REVISION	FORMAL ASSESSMENT TASK TEST All topics		

Prerequisite skill or pre- knowledge	 Order, compare, represent and place value of 9 digit numbers Rounding off to the nearest 5,10,100.1000.10 000, etc. All operations with whole numbers Multiples and factors of 3 digit whole numbers Prime factors of 2 digit whole numbers up to 100 Properties of operations with whole numbers Identity element of 0 and 1 		 Ordering and comparing fractions specifically Tenths and hundredths Addition and subtraction of common fractions, including mixed numbers, limited to fractions with the same denominator or where one denominator is a multiple of another Recognize and use equivalent forms of common fractions with 1-digit or 2-digit denominators finding fractions of whole numbers Finding percentages of whole numbers Equivalence between fractions and percentage forms of the same number 	 Count forwards and backwards in decimal fractions to at least two decimal places Compare and order decimal fractions to at least two decimal places Place value of digits to at least two decimal places Rounding off decimal fractions to at least 1 decimal place Addition and subtraction of decimal fractions of at least two decimal places multiplication of decimal fractions by 10 and 100 Equivalence between fractions and percentage forms of the same number 		
--	---	--	--	--	--	--

TERM 2	Week 1 4 days	Week 2 4 days	Week 3 4 days	Week 4 4 days	Week 5 4 days	Week 6 5 days	Week 7 5 days	Week 8 5 days	Week 9 5 days	Week 10 5 days	Week 11 3 days	Week 12 5 days
Hours per week	3.5 hrs	4 hrs	3.5 hrs	3.5 hrs	3.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs	3 hrs	4.5 hrs
Hours per topic	7 hrs	s	(hrs	3 hrs.		9 hrs.		9 hrs	'	3 hrs	4.5 hrs
Topics, concepts and skills	Calculations with d fractions Addition and subtr decimal fractions of decimal places Multiply decimal fraction decimal places numbers Decimal fraction decimal places fractions to at I place Divide decimal fractions to decimal places fractions to at I place Divide decimal fractions to decimal places fractions to at I place Divide decimal fractions to decimal places by Calculation techniq Use knowledge of estimate the number places in the result. Use rounding off at to check results we appropriate. Solving problems Solving problems Solving problems Recognize equivalent forms Recognize equivalent forms of the common fraction and percentage for number.	ecimal raction to of at least three ractions to ractions to ractions to ractions to ractions to ractions to at least 3 ractions to at least 2 ractions to at least 2 ractions to include ro at least 3 ractions	INTEGERS: Counting, order integers Count forwards integers for an Recognize, ordintegers Calculations with Add and subtrate Properties of integers Recognize and associative addition for integers	s and backwards y interval der and compare h integers act with integers egers d use commutative properties of	INVESTIGATION Decimal Fractions Integers	Investigate and of the	d extend numeric and erns looking for relation oers, including patterns d in physical or diagrar to sequences involving or ratio sown creation	Input and Determinations In put and Determinations In put and Determinations In put and Input and Inpu	ne input value or rules for pat ships using: diagrams es ulae It forms ne, interpret a ence of differe ions of the sal ship or rule pre ally ow diagrams	es, output terns and and justify nt me esented:	REVISION	FORMAL ASSESS MENT TASK TEST All Term 1 & 2 topics

TERM 3	Week 1 4 days		Week 2 5 days	Week 3 5 days	Week 4 3 days	Week 5 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	4.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs
Hours per topic	6 hrs		(6 hrs	8 hrs.		9 hrs.		9 h	rs	2.5 hrs.	6 hrs
Topics, concepts and skills	ALGEBRAIC EXPRESSIONS Recognise and intrules or relationsh represented in synform Identify variables a constants in given formulae and equality.	ips mbolic and	Number sent Write number describe processed and describe and describ	per sentences to roblem situations ad interpret intences that given situation iiables and in given formulae iis complete number by: tion iid improvement iiions by	CONSTRUCTION OF GEOMETRIC FIGURES • Accurately use a measure and cla — < 90° (acute a — Right-angles — >90° (obtuse — Straight angles — >180° but les (reflex angles Constructions PROVIDE LEARNE ACCURATELY COFIGURES • Accurately const figures appropria compass, ruler a including: — angles, to one accuracy — circles — parallel lines — perpendicular • Describe and nacircle GEOMETRY OF STAINES Define: • Line segment • Ray • Straight line • Parallel lines • Perpendicular lines • Perpendicular lines	protractor to assify angles: angles) angles) angles) es is than 360° is) ERS WITH INSTRUCTED arruct geometric ately using a and protractor, and protractor, are degree of Truct geometric ately using a and protractor, and protractor, are degree of TRAIGHT	their sides and on: - equilateral t - isosceles tri - right-angled - Describe, sort, compare quadr of: - length of sides - parallel and sides - size of anglinot) Similar and congishapes - Recognise and and congruent comparing: - shape - size Solving problem - Solve simple go problems involved.	hapes name and les according to angles, focussing triangles iangles d triangles name and rilaterals in terms des I perpendicular es (right angles or gruent 2D I describe similar figures by s eometric ving unknown es in triangles and		cribe and tions, reflections ith geometric pes on squared w lines of ometric figures d reductions ents and	REVISION	FORMAL ASSESSMENT TASK TEST All topics
Prerequisite skill or pre- knowledge					Straight sides an Types of angles definitions		the number of	veen a rectangle gram	Symmetry Use transformation describe pattern Increase/ decrease/ shapes by the symmetry	ns in shapes ase the sides of		

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	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
Hours per	4 days 3.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs	3 days 3 hrs
week										
Hours per	8 hrs.		9 hrs.			nrs.	9	hrs	4,5 hrs	3 hrs
Week Hours per topic	AREA AND PERSHAPES Area and perime Calculate the and irregular perimental calculate perimental calculations and calculate perimental calculations and calculations and calculate perimental calculate perimental calculate perimental calculations and calculate perimental calculate perimen	8 hrs. EIMETER OF 2D eter Derimeter of regular polygons Ite formulae to meter and area of: d solving problems is involving perimeter plygons It least 1 decimal place ert between units, including:	SURFACE AREA AN OBJECTS Surface area and volume and capaco • Use appropriate for the surface area, volume and capaco • Solve problems involume and capaco • Use and convert book solumits, including: • mm² ↔ cm² • cm² ↔ m² • mm³ ↔ cm³ • cm³ ↔ m³ • cm³ ↔ m³	ID VOLUME OF 3D Folume Immulae to calculate volume and capacity Isms In the column of the objects In the column of the ob	PROVIDE LEARNER SAVE TIME Pose questions re economic, and endown environment Select appropriate collection of data (family, newspaper) Distinguish between populations and sustamples for investion – yes/no type resending ending to answer question – yes/no type resending ending endi	collect data; RS WITH DATA TO dating to social, vironmental issues in sources for the including peers, s, books, magazines) en samples and aggest appropriate igation imple questionnaires is with: sponses responses displays record data using displays servals stinguishing between cal data by and smallest scores retermine the inthem in order to ead of the data ouped) including: I double bar graphs	9			3 days 3 hrs FORMAL ASSESSMENT TASK TEST All Term 3 & 4 topics

		 pie charts histograms Analyse data Critically analyse data by answering questions related to: data categories, including data intervals data sources and contexts central tendencies (mean, mode, median) scales used on graphs Report data Summarize data in short paragraphs that include drawing conclusions about the data making predictions based on the data identifying sources of error and bias in the data choosing appropriate summary statistics for the data (mean, median, mode) 		
Prerequisite skill or pre- knowledge	 Conversions between SI units of length Area of 2D shapes by counting the number of squares 3 D objects Volume of 3D objects by counting the number of cubes 	Complete Data cycle		