ENGLISH MATHEMATICS _2021 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 5 day				Week 8 5 days		ek 9 lays	Week 10 3 days
Hours per week	2.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs	4.5 hr	'S	4.5 hrs		4.5 hrs		hrs	3 hrs
Hours per topic	2.5 hrs.		13.5 hrs.		4.5 hrs	2 hrs.		9 hrs		4 hrs.		2 hrs.	3 hrs
Topics, concepts and skills	REVISION	Ordon who or Proproviet with or Calculation open num Calculation Use a rain perform a mental canumbers — long or — addin multip — estim — round comp — using Multiples at the at least numbers or Find the whole numbers — Solving proproviet of the comp of the	ne following: ering and colle numbers berties of op whole numbers rations with bers n technique nge of strate and check walculations of including: division g, subtractir olying in coluation ling off and ensating a calculator at a calculator of factors of factors of of t 3-digit who blems oblems	erations pers ng all whole s egies to ritten and of whole ag and umns chumbers ple CF of spection ving whole or more same kind uantities of te) ratio	 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: a^b = 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 denominated the other. Multiplication including limited to denominate another. Calculation Convert in common perform of the common perform of the calculation. Use known fractions common. Percentage Calculated of a whole or decrease. Solving province including mixed numbers. Solve province including and finding numbers. Solve province including and finding numbers.	ation common fractions in techniques mixed numbers, no fractions where or ator is a multiple of techniques mixed numbers to fractions in order to calculations with the wledge of multiples of write fractions in the form before or after to add and subtractions we the percentage increases of whole numbers are of whole numbers, are grouping and sharing fractions of who	o le of lions, lot le em and the er ot and tring; le of le of ers of part le ers	dering and comparing cimal fractions Count forwards and backwards in decimal fractions to at least 3 decimal places Place value of decimals at least 3 decimal places Order and compare decimal fractions to at least 2 decimal places Rounding off decimal fractions to at least 2 decimal places	s to	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 if 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 Equivalence between fractions and percentage forms of the same number
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TERM 2	Week 1 4 days	Week 2 5 days	Week 3 3 days	Week 4 5 days	Week 5 5 days	Week 6 5 days	Week 7 5 days	Week 8 5 days	Week 9 5 days	Week 10 4 days	Week 11 5 days
Hours per week	3.5 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	3.5 hrs	4.5 hrs
Hours per topic	7 hr	S	9 hrs		2 hrs.	9	9 hrs.		9 hrs.		4.5 hrs
Topics, concepts and skills	Calculations with diffractions Addition and subtractions decimal fractions decimal places Multiply decimal fraction decimal places numbers Decimal fraction decimal places fractions to at place Divide decimal fraction decimal places fractions to at place Divide decimal fractions to decimal places of decimal places by Calculation technic Use knowledge of estimate the number places in the resurbaces in the resurbaces in the resurbaces in the resurbaces of the check results was propriate Solve problems Solve problems Solve problems Recognize equivalent forms Recognize equivalent forms Recognize equivalent forms of the common fraction and percentage for number	raction to of at least three ractions to at least 3 s by whole ons to at least 2 s by decimal least 1 decimal ractions to include to at least 3 whole numbers ques and a calculator there ractions to include to at least 3 replace value to be of decimal lit before and a calculator there ractions	integers for an Recognize, ordintegers Calculations wit Add and subtrate Properties of integers Recognize and and associative addition for integers	s and backwards y interval der and compare th integers act with integers tegers d use commutative properties of	INVESTIGATION Decimal Fractions Integers	and geometric relationships be including patter - represented diagram for - not limited to involving a - difference of - of learner's - represented Describe and jurules for observing	extend patterns d extend numeric patterns looking for etween numbers, rns: d in physical or m to sequences constant or ratio own creation	Input and output v Determine input values or rules for relationships usin — flow diagrams — tables — formulae Equivalent forms Determine, interpequivalence of didescriptions of the relationship or rule — verbally — in flow diagram — in tables — by formulae — by number see	values, output or patterns and ng: s oret and justify ifferent ne same le presented: ms	REVISION	FORMAL ASSESSMENT TASK TEST All Term 1 & 2 topics

TERM 3	Week 1		ek 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11
	4 days		lays	5 days	5 days	4 days	5 days	5 days	5 days	5 days	5 days	4 days
Hours per week	3.5 hrs	4.5	hrs	4.5 hrs	4.5 hrs	3.5 hrs	4.5 hrs	4.5 hrs	4.5 hrs 4.5 hrs		4.5 hrs	4 hrs
Hours per topic	6 hrs			6 hrs	8 h	irs.	9 h	nrs.	9 hrs		2.5 hrs.	6 hrs
Topics, concepts and skills	Recognise and intrules or relationshirepresented in synform Identify variables a constants in given and equations	erpret ips nbolic and	Number s Write no describe Analyse number describe Identify constar or equal Solve a sentence — insperior trial	umber sentences to e problem situations e and interpret sentences that e a given situation variables and its in given formulae tions and complete number ses by: Dection and improvement quations by	measure and of the segment of the se	es e a protractor to classify angles: te angles) es se angles) igles less than 360° les) ENERS WITH O FIGURES Instruct ires using a r and protractor, one degree of es ular lines name parts of a	to their sides focussing on:	shapes t, name and tigles according and angles, I triangles triangles triangles ted triangles	geometric fig on squared p Identify and of symmetry in grigures Enlargements Draw enlarger reductions of figures on square there shape and six	escribe and slations, and rotations with ures and shapes aper draw lines of geometric and reductions ements and geometric uared paper and m in terms of	REVISION	FORMAL ASSESSMENT TASK TEST All topics
Prerequisite skill or pre- knowledge					Straight sides sidesTypes of angle definitions		Naming of shat to the number Difference be rectangle and parallelogram Types of angle	tween a I a		erns in shapes crease the sides		

TERM 4	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10
	4 days	5 days	5 days	5 days:	5 days	5 days	5 days	5 days	5 days	3 days
Hours per	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	2.5 hrs
week	0.0 111 0	4.0 1110	4.0 1110	4.0 1110	4.0 1110	4.0 1110	4.0 1.10	4.0 111.0	4.0 1110	2.0 1.10
Hours per	8 hrs.		9 h	nrs.	9 h	9 hrs.			4,5 hrs	3 hrs
topic	AREA AND PERIMETE	R OF 2D SHAPES	SURFACE AREA AND		DATA HANDLING:		REVISION	OF TERM 3	FORMAL	FORMAL
	VOLUME OF 3D OBJECTS				Collect data:		WORK	ASSESSMENT	ASSESSMENT	
	Area and perimeter					WITH DATA TO CAVE			TASK	TASK
	Calculate the perimet	Calculate the perimeter of regular and				WITH DATA TO SAVE			TEST	TEST
	irregular polygons	or or rogular aria	Use appropriate form	ulae to calculate the	TIME				0.	
			surface area, volume	and capacity of:		ing to social, economic,			All Term 3 & 4	All Term 3 & 4
	 Use appropriate form perimeter and area of 		cubesrectangular prisms	2	and environmental is environment	sues in own			topics	topics
	- squares	•	- rectangular prisms	•		ources for the collection				
	rectangles		Describe the interrela	tionship between		ers, family, newspapers,				
	triangles		surface area and volu	ime of the objects	books, magazines)					
	Calculations and solvi	na problems	mentioned above		 Distinguish between populations and sugg 					
	 Solve problems involved 		Calculations and solvi	na problems	samples for investiga					
	of polygons		Solve problems involv		 Design and use simp 					
			volume and capacity		answer questions wit					
	Calculate to at least 1	decimal place	 Use and convert betw units, including: 	een appropriate SI	yes/no type responsemultiple choice re					
	Use and convert betw	een appropriate SI	- mm ² ↔ cm ²		- multiple choice te	35p0113C3				
	units, including:		$- \text{ cm}^2 \leftrightarrow \text{m}^2$		Organize and summar					
	- mm ² ↔ cm ²		$-\text{ mm}^3 \leftrightarrow \text{cm}^3$		Organize (including g					
	$- cm^2 \leftrightarrow m^2$		 cm³ ↔ m³ Use equivalence betw 	veen units when solving	appropriate) and reco	ord data using				
Topics,			problems:	veen units when solving	- tables					
concepts and skills			- 1 cm ³ ↔ 1 ml		 stem-and-leaf dis 					
and skins			$-1 m^3 \leftrightarrow 1 kl$		Group data into inter					
					Summarize and distinguished numerical	nguisning between I data by determining:				
					– mean	data by dotomining.				
					- median					
					- mode	nd emallast scaras in a				
					data set and determine	nd smallest scores in a ne the difference				
					between them in orde					
					spread of the data (ra	ange)				
					Represent data					
					 Draw a variety of gra 	phs by hand/				
					technology to display					
					(grouped and ungrou					
					bar graphs and dehistograms with g					
					- pie charts	grvori iritorvais				
					Interpret data					
			•		1 .	terpret data represented				
					in:					
					wordsbar graphs					
					 double bar graphs 	S				

			 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) 	
Prerequisit e skill or pre- knowledge	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 3 D objects Volume of 3D objects by counting the number of cubes 	Complete Data cycle	