## **ENGLISH MATHEMATICS \_2023 WEEKLY TEACHING PLAN \_ GRADE 7**

TERM 1	Week 1 3 days	Week 2 5 days	Week 3 5 days	Wee 5 da		Week 5 5 days		Week 6 5 days		ek 7 lays	Week 8 5 days	Week 9 5 days	Week 10 5 (3) days	Week 11 3 (5) days
Hours per topic		13.	5 hrs.			2 hrs		9 hrs			11.5 hrs.		4.5 (3.5) hrs	3.5 (4.5) hrs
Topics, concepts and skills	o Proper numb o Calculation or Calculation or Calculation or Use any stand mental including: - long div - adding column - estimat - roundir - using a correctness  Multiples an • List prime whole num • Find the Louinspection  Solving prot • Solve probincluding: - Compassame k - Solve probincluding: - Sharing given • Solve probincentage contexts si	e following: ring and comparates of operates of operates allations using a rate chniques trategy to perform a calculations of the answer of th	ions with whole all operations we come and check of whole number of whole numb	e with written pers in he at 3-digit ers by ers, sof the nt kinds whole is abers,	ASS  • Whole N.B. As	ORMAL ESSMENT TASK SIGNMENT Ile numbers signment to e in class ars	Order fraction   • Ext   • Calculate   • Add   • Add   • Add   • Mu   • Mu   • Mu   • Calculate   • Colculate   • Colculate   • Calculate   •	ring, comparing and simplifying commons end to thousandths  diations with fractions dition and subtraction of fractions includin mbers where one denominator is not a mu- other.  Itiplication common fractions, including m mbers, not limited to fractions where one nominator is a multiple of another.  Itation techniques envert mixed numbers to common fractions berform calculations with them the knowledge of multiples and factors to we citions in the simplest form before or after culations. The knowledge of equivalent fractions to add totract common fractions tentages  Iculate the percentage of part of a whole culate percentage increase or decrease of mbers  The problems  The problems  The problems in contexts involving common citions and mixed numbers, including ground aring; and finding fractions of whole numb to problems in contexts  The problems in contexts in the problems in contexts  The problems in contexts in the problems in contexts  The problems in context in the problems in conte	g mixed ultiple of ixed ixed a in order rite d and of whole in ping and	Ordering fractions	problems in context in al fractions	ds in decimal least 3 ractions to s to at stions ecimal imal places include: st 3 numbers st 2 I fractions eclude decimal eto nal places ator to ate volving een I fraction and veen ction and	REVISION	FORMAL ASSESSMENT TASK TEST All topics

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

TERM 2		Week 1 3 days	Week 2 5 days	Week 3 3 days	Week 4 4 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 topic		4.5			9 hrs	<u> </u>	9 h			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	<ul> <li>Mental calculations         <ul> <li>Determine squares to at least 12² and their square roots</li> <li>Determine cubes to at least 6³ and their cube roots</li> </ul> </li> <li>Comparing and representing numbers in exponential form         <ul> <li>Compare and represent whole numbers in exponential form: a³ = a × a × a × for b number of factors</li> </ul> </li> <li>Calculations using numbers in exponential form         <ul> <li>Recognize and use the appropriate laws of operations with numbers involving exponents and square and cube roots</li> <li>Calculations involving all four operations using numbers in exponential form, limited exponents up to 5, and square and cube roots</li> </ul> </li> </ul>		Counting, ordering and comparing integers  Count forwards and backwards in integers for any interval Recognize, order and compare integers  Calculations with integers  Add and subtract with integers  Properties of integers  Recognize and use commutative and associative properties of addition for integers			NUMERIC AND GIPATTERNS Investigate and example and geometric prelationships between number of the properties of the prop	extend patterns extend numeric extend numeric externs looking for tween numbers, es: in physical or extend numeric extend numeric externs looking for tween numbers, es: in physical or extend numbers extend numeric extend numbers,	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 ASSESSMEN T TASK  TEST  All Term 1 & 2 topics
Prerequisi te skill or pre- knowledg e		All four operations with whole numbers     Comparing whole numbers		Number line     Addition and numbers		with whole	<ul> <li>All operations with whole numbers</li> <li>Addition and subtraction as inverse operations</li> <li>Multiplication and division as inverse operations (with whole numbers)</li> <li>Addition and subtraction of integers</li> <li>Investigate and extend numeric and geometric patterns looking for relationships in patterns not limited to constant difference or ratio</li> <li>Describe the general rules for the observed relationships with patterns limited to constant difference or ratio</li> </ul>		squares and re	resentations of ptions of the hip or rule agram er sentence plating the areas of ectangles processed and the volume of the sentence plating the volume of the sentence processed and the sentence plating the volume of the sentence plating the volume of the sentence plating the senten		

TERM 3		Week 1 4 days	Week 2 5 days	Week 3 5 days	Week 4 4 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 4 days
Hours per topic		13.5 hrs.					hrs.	9 hrs		9 hrs.		3hrs
Topics, concepts and skills	N.B. The project must cover a combination of topics from Term 1 to Term 3 and must be completed before the end of Term 3	Measuring a	angles y use a protra ngles: (acute angles) angles obtuse angles ht angles but less than ons  y construct the ruler and prot s, to one degre el lines and name par Y OF STRAIG  ment ne	e following usi tractor, limited ee of accuracy	re and ngles) ng a to:	according to their side on:  - equilateral triangle - isosceles triangle - right-angled triangle - right-angled triangle - pescribe, sort, name quadrilaterals in term - length of sides - parallel and perperentation of angles (right) - size of angles (right) - size of angles (right) - Recognise and description of sides - size size - size - size - solving problems - Solve simple geomet	and compare triangles es and angles, focussing es s gles and compare is of: endicular sides ght angles or not) t 2D shapes ribe similar and congruent gric problems involving angles in triangles and	translations, ref geometric figure paper  Identify and dra geometric figure  Enlargements an  Draw enlargements geometric figure	scribe and perform flections and rotations with es and shapes on squared lw lines of symmetry in es	REVISION	Т	EST topics
Prerequisite skill or pre- knowledge			ides and curve angles and the			<ul> <li>Naming of shapes ad sides</li> <li>Difference between a parallelogram</li> <li>Types of angles</li> </ul>	ccording to the number of a rectangle and a	patterns in shap	ase the sides of 2D			

TERM 4	Week 1 4 days	Week 2 5 days	Week 3 5 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
Hours per	8 hrs.		9 1	hrs.	9 hrs.		9 hrs		8 hrs	
Topics, concepts and skills	AREA AND PERIMETE SHAPES  Area and perimeter  Calculate the perimeter and irregular polygon.  Use appropriate form calculate perimeter a squares rectangles  triangles  Calculations and solvi. Solve problems involvand area of polygons.  Calculate to at least of the square square square squares.  Use and convert between appropriate SI units, mm² ↔ cm²	er of regular s ulae to nd area of:  ng problems ving perimeter I decimal place	volume and capacity of:  - cubes  - rectangular prisms  • Describe the interrelationsh volume of the objects menti  Calculations and solving pro  • Solve problems involving sucapacity  • Use and convert between a   - mm² ↔ cm²  - cm² ↔ m²  - mm³ ↔ cm³  - cm³ ↔ m³  - cm³ ↔ m³	o calculate the surface area,  nip between surface area and ioned above  oblems	Select appropriate sour data (including peers, it books, magazines) Distinguish between sa and suggest appropriate investigation Design and use simple answer questions with:  yes/no type respon  multiple choice respon  multiple choice respon  multiple choice respon  appropriate) and record  tally marks  tables  stem-and-leaf disples  Group data into intervations ungrouped numerical of mean  median  mode Identify the largest and	g to social, economic, ues in own environment res for the collection of family, newspapers, amples and populations te samples for questionnaires to ses ponses  ge data ouping where d data using  ays als guishing between data by determining:  I smallest scores in a ge the difference between mine the spread of the as by hand/ technology to data (grouped and table bar graphs ten intervals	REV	ISION	EXAMII PAPER 1 AI	SSESSMENT SK NATION ND PAPER 2 om Term 1-4

		Analyse data Critically analyse data by answering questions related to:	
Prerequisite skill or pre- knowledge	<ul> <li>Conversions between SI units of length</li> <li>Area of 2D shapes by counting the number of squares</li> <li>3 D objects</li> <li>Volume of 3D objects by counting the number of cubes</li> </ul>	Complete Data cycle	