ENGLISH MATHEMATICS _2021 WEEKLY TEACHING PLAN _ GRADE 7



| TERM 2 | Week 1 Week 2 <br> 4 days 5 days | Week 3 Week 4 <br> 3 days 5 days | Week 5 <br> 5 days | Week 6 Week 7 <br> 5 days 5 days | Week 8 Week 9 <br> 5 days 5 days | Week 10 4 days | Week 11 5 days |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hours per week |  | 2.5 hrs 年5 hrs | 4.5 hrs | 4.5 hrs 年5 hrs | 4.5 hrs 年5 hrs | 3.5 hrs | 4.5 hrs |
| Hours per topic | 7 hrs | 9 hrs | 2 hrs ． | 9 hrs ． | 9 hrs ． | 3.5 hrs | 4.5 hrs |
| Topics， concepts and skills | DECIMAL FRACTIONS： <br> Calculations with decimal fractions <br> －Addition and subtraction to decimal fractions of at least three decimal places <br> －Multiply decimal fractions to include： <br> －decimal fractions to at least 3 decimal places by whole numbers <br> －Decimal fractions to at least 2 decimal places by decimal fractions to at least 1 decimal place <br> －Divide decimal fractions to include decimal fractions to at least 3 decimal places by whole numbers <br> Calculation techniques <br> －Use knowledge of place value to estimate the number of decimal places in the result before <br> －Use rounding off and a calculator to check results where appropriate <br> Solving problems <br> －Solve problems in context involving decimal fractions <br> Equivalent forms <br> －Recognize equivalence between common fraction and decimal fraction forms of the same number <br> －Recognize equivalence between common fraction，decimal fraction and percentage forms of the same number | INTEGERS： <br> Counting，ordering and comparing integers <br> －Count forwards and backwards in integers for any interval <br> －Recognize，order and compare integers <br> Calculations with integers <br> －Add and subtract with integers <br> Properties of integers <br> －Recognize and use commutative and associative properties of addition for integers | FORMAL ASSESSMENT TASK <br> INVESTIGATION <br> －Decimal Fractions <br> －Integers | NUMERIC AND GEOMETRIC PATTERNS <br> Investigate and extend patterns <br> －Investigate and extend numeric and geometric patterns looking for relationships between numbers， including patterns： <br> －represented in physical or diagram form <br> －not limited to sequences involving a constant <br> －difference or ratio <br> －of learner＇s own creation <br> －represented in tables <br> －Describe and justify the general rules for observed relationships between numbers in own words | FUNCTIONS AND RELATIONSHIPS： <br> Input and output values <br> －Determine input values，output values or rules for patterns and relationships using： <br> －flow diagrams <br> －tables <br> －formulae <br> Equivalent forms <br> －Determine，interpret and justify equivalence of different descriptions of the same relationship or rule presented： <br> －verbally <br> －in flow diagrams <br> －in tables <br> －by formulae <br> －by number sentences | REVISION | FORMAL ASSESSMENT TASK <br> TEST <br> All Term 1 \＆ 2 topics |



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 elationships in patterns not limited to constant difference or ratio

- Describe the general rules for the observed relationships with patterns limited to constan difference or ratio

Input and output values with whole numbers
Equivalent representations of the above

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 <br> 4 days 5 days | Week 3 Week 4 <br> 5 days 5 days: | Week 5 Week 6 <br> 5 days 5 days | Week 7 Week 8 <br> 5 days 5 days | Week 9 5 days | Week 10 <br> 3 days |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Hours per week |  |  | 4.5 hrs 4.5 hrs | 4.5 hrs 4.5 hrs | 4.5 hrs | 2.5 hrs |
| Hours per topic | 8 hrs . | 9 hrs. | 9 hrs . | 9 hrs | 4,5 hrs | 3 hrs |
| Topics, concepts and skills | AREA AND PERIMETER OF 2D SHAPES <br> Area and perimeter <br> - Calculate the perimeter of regular and irregular polygons <br> - Use appropriate formulae to calculate perimeter and area of: <br> - squares <br> - rectangles <br> - triangles <br> Calculations and solving problems <br> - Solve problems involving perimeter and area of polygons <br> - Calculate to at least 1 decimal place <br> - Use and convert between appropriate SI units, including: <br> $-\mathrm{mm}^{2} \leftrightarrow \mathrm{~cm}^{2}$ <br> $-c m^{2} \leftrightarrow m^{2}$ | SURFACE AREA AND VOLUME OF 3D OBJECTS <br> Surface area and volume <br> - Use appropriate formulae to calculate the surface area, volume and capacity of: <br> - cubes <br> - rectangular prisms <br> - Describe the interrelationship between surface area and volume of the objects mentioned above <br> Calculations and solving problems <br> - Solve problems involving surface area, volume and capacity <br> - Use and convert between appropriate SI units, including: <br> - $\mathrm{mm}^{2} \leftrightarrow \mathrm{~cm}^{2}$ <br> $-\mathrm{cm}^{2} \leftrightarrow \mathrm{~m}^{2}$ <br> $-\mathrm{mm}^{3} \leftrightarrow \mathrm{~cm}^{3}$ <br> $-\mathrm{cm}^{3} \leftrightarrow \mathrm{~m}^{3}$ <br> - Use equivalence between units when solving problems: <br> $-1 \mathrm{~cm}^{3} \leftrightarrow 1 \mathrm{ml}$ <br> $-1 \mathrm{~m}^{3} \leftrightarrow 1 \mathrm{kl}$ | DATA HANDLING: <br> Collect data; <br> PROVIDE LEARNERS WITH DATA TO SAVE TIME <br> - Pose questions relating to social, economic, and environmental issues in own environment <br> - Select appropriate sources for the collection of data (including peers, family, newspapers, books, magazines) <br> - Distinguish between samples and populations and suggest appropriate samples for investigation <br> - Design and use simple questionnaires to answer questions with: <br> - yes/no type responses <br> - multiple choice responses <br> Organize and summarize data <br> - Organize (including grouping where appropriate) and record data using <br> - tally marks <br> - tables <br> - stem-and-leaf displays <br> - Group data into intervals <br> - Summarize and distinguishing between ungrouped numerical data by determining: <br> - mean <br> - median <br> - mode <br> - Identify the largest and smallest scores in a data set and determine the difference between them in order to determine the spread of the data (range) <br> Represent data <br> - Draw a variety of graphs by hand/ technology to display and interpret data (grouped and ungrouped) including: <br> - bar graphs and double bar graphs <br> - histograms with given intervals <br> - pie charts <br> Interpret data <br> - Critically read and interpret data represented in: <br> - words <br> - bar graphs <br> - double bar graphs | REVISION OF TERM 3 AND 4 WORK | FORMAL ASSESSMENT TASK TEST All Term $3 \& 4$ topics | FORMAL ASSESSMENT TASK TEST All Term $3 \& 4$ topics |



