**DISTRICT:GASABO P2 SCHEME OF WORK OF MATHEMATHICS**

**THE CITY OF KIGALI**

**ACADEMY YEAR:2022-2023**

**FIRST TERM**

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| **DATE&**  **WEEKS** | **UNIT TITLE** | **LESSON TITLES** | **LEARNING OBJECTIVES** | **TEACHING METHOD&TECHNIQUES** | **RESOURCES AND REFERENCES** | **OBERVATION** |
| **WEEK 1**  **26-30/09/2022** | Revision | Revision |  |  |  |  |
| **WEEK 2**  **03-07/10/2022** | Unit numbering between 0 up to 200 | Numeration  L1- Counting  L2- Reading and writing numbers between 0 up to 200  L3 –Mental calculation | **Knoweledge and understanding**   * Count , read and write in word and in letter numbers between o up to 500 * Compare numbers between 0 up to 500 | Count objects in groups | P29 Highland Publishers  P32 Highland Publishers |  |
| **WEEK 3**  **10-14/10/2023** |  | 44- Expanded form  25-Addition and subtraction  26- Multiplication by 2 | -Adding correctly  -Discovering the length measurements  Differentiate the types of lines | Groups works observation | p.33 Highland Publishers |  |
| **WEEK 4**  **17-21/10/2023** | Unit 5  Unit 10 | **Measurement**  L1 concept of length measurement (m,dm,cm)  L1 Geometry  Straight lines vertical line and parallel lines  L2Problem  Addition subtraction and x of numbers between 0 up 2 00 | * Compare numbers between 0 up to 100 * Differentiate the length of m and d. | Imitation | P 127 Highland Publishers  195 Highland Publishers |  |
| **WEEK 5**  **24-28/10/2022** | Unit1  Unit5  Unit10 | Numeration  L7 –Expanded form  L8- Reading and writing number between 100-200  L10 Addition and subtraction of numbers  L11- Multiplication by 2  **Measurement**  L2 conversion of length measurements  **L2 Geometry**   * Cutting lines * Crossed lines * Exercises about lines studied | * Estimate the le * Distinguish crossing lines parallel lines and perpendicular * Names and draw lines * Content the length measurements in small units   **Skills**   * Show and explain the place value of hundreds , tenths and ones . * Counting , reading , writing numbers from 0 up to 200 | Groups works observation  Questions and answers  Group works  Analysis | P36 Highland Publishers  P41 Highland Publishers  P42 Highland Publishers  P129 Highland Publishers  P1955 Highland Publishers |  |
| **WEEK 6**  **31/10-04/11/2022** | Unit 10 | **Numeration**  L12 Multiplication table by 3  L13 Subtraction without borrowing mental calculation  **Measurement**  L3- concept of cm  L4 – Relationship between m,dm,and cm ..  **Geometry**  L3 –Perpendicular lines  L4- Crossing lines | * Measuring different object . * Indicate on which object we can use the length measurements in life .   -Drawing and naming the straight lines  - Arrange numbers from 0 up to 200  -Perform well addition vertically  -Converting well the given measurement units  **Attitudes and values**  -ability to read numbers written else where  -trust fullness .  Effective application on measurement s  -Attentive observation ability to estimate the length measurement .  - Development of critical thinking  -Develop observation and conservation  -Exactness | Groups works  Observation  Analysis  Observation  Count objects in groups  Observation  Group works | P 50 Highland Publishers  P130 Highland Publishers  P131 Highland Publishers |  |
| **WEEK 7**  **07-11/11/2022** | Unit 5 | Numeration  Reading and writing numbers (100-200)  L4- Increasing progressing  -Exercises about  -Addition and substraction  L15- Vertical multiplication by 3  **Measurements**   * Addition and subtraction (m,dm,cm) * Conversion )   L16 **Geometry**  Curved lines  Cutting lines |  |  |  |  |
| **WEEK 8**  **14-18/11/2022** | Unit 1  Unit 10 | Numeration  L1 –Decreasing progression  L17 –Problems about addition subtraction and multiplication  Geometry  L7  -Exercises about -Curved lines and cutting lines | P4 | Group works  Observation | P50 Highland Publishers |  |
| **WEEK 9**  **21-25/11/2022** | Unit 5  Unit 10 | **Numeration**  **Algebra**  -Missing numbers  -Vertical multiplication by 2 and 3 without  -Exercise: problems about addition, subtraction  L6  Measurement  Exercises about length measurement  **Geometry**  Various exercises on the lines seen |  | Questions and answers  Group works | P51 Highland Publishers  P141 Highland Publishers |  |
| **WEEK 10**  **28/11-02/12/2022** |  | Numeration  Various exercises on four operations  Measurements  Exercises about length measurement | (5) | Group works |  |  |
| **WEEK 11**  **05-09/12/2022** | **REVISION** | | | | | |
| **WEEK 12**  **12-16/12/2022** | **EXAMS** | | | | | |
| **WEEK 13**  **19-23/12/2022** | **CORRECTION** | | | | | |

**2ND TERM**

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| **Weeks Dates** | **Unit Title** | **Lesson Title** | **Learning Objectives** | **Teaching Methods& Technics** | **Resources& Reference** | **Observation** |
| **WEEK 1**  **09-13/01/2023** | W | Revision |  |  |  |  |
| **WEEK 2**  **16-20/01/2023** | Chap2. Whole numbers from up to 500 | Numeration  L2. Reading , writing number from 200 to 500 | * Complete the progression and regression * Find the unknown * Complete the measurements units in the conversion table * Problem resolution * Recall for 4 operations * Hygiene of the objects and domestics objects * Differentiate class objects and domestics objects * Precise measure of the given distance * Distinction of cutting lines * Ability to know the purpose of progression * Ability to repeat the signs to be used | * Group work * Memorization | P.58 Highland Publishers |  |
| **WEEK 3**  **23-27/01/2023** | Unit 6 liter | L2. Place value of each digit for numbers from to 200 up to 500  L3 Company numbers from 200 up to 500  Measurement  L1. Measuring liquid with a liter as a measuring tool | * Complete the progression and regression * Find the unknown * Complete the measurements units in the conversion table * Problem resolution * Recall for 4 operations * Hygiene of the objects and domestics objects * Differentiate class objects and domestics objects * Precise measure of the given distance * Distinction of cutting lines * Ability to know the purpose of progression * Ability to repeat the signs to be used | * Manipulation * Group work | P.60 Highland Publishers  P.62 Highland Publishers  P.144 Highland Publishers |  |

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|  | Unit 10 lines and Angles | L2. Comparing capacity measurement of liquids  L3 Addition of capacities expressed in liters  Geometry  L1. Types of angles  L2. Comparing angles | * Complete the progression and regression * Find the unknown * Complete the measurements units in the conversion table * Problem resolution * Recall for 4 operations * Hygiene of the objects and domestics objects * Differentiate class objects and domestics objects * Precise measure of the given distance * Distinction of cutting lines * Ability to know the purpose of progression * Ability to repeat the signs to be used | Counting  Observation |  | P.146  P.148  P.196  P.197 |
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| **WEEK 4**  **30/01-03/02/2023** |  | Numeration  L4. Addition of numbers whose sum does not exceed to 500  L5. Subtraction of numbers within the range 500  L6. Word problems involving addition and subtraction of numbers  L7. Multiplication table of 4 | * Complete the progression and regression * Find the unknown * Complete the measurements units in the conversion table * Problem resolution * Recall for 4 operations * Hygiene of the objects and domestics objects * Differentiate class objects and domestics objects * Precise measure of the given distance * Distinction of cutting lines * Ability to know the purpose of progression * Ability to repeat the signs to be used | Discussion in groups  Observation |  | P65  P.68  P.70  P.73 |
|  |  |  | * Draw and name those lines * Explain the place value * Hundreds * Tens   Skills   * Memorize * Read, write and compare |  |  |  |
|  |  |  | * Convert from the biggest to the smallest units   Attitudes & values   * Good reading of the marked number on the house, road * Effectiveness in measuring * Ability to know the importance of measuring using meter in their daily life |  |  |  |

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|  |  |  | Measurement  L4 subtraction or difference of capacities in litres  L5. Multiplication of units of capacity per a whole numbers  Geometry  L3 comparing angles  L4 Unit assessment | Imitation  Question and answers | P.149  P.151  P.199 |  |
| **WEEK 5**  **06-10/02/2023** |  |  | Numeration  L8 Multiplication by 5  L9 Multiplying 2 digits numbers by 4&5 without carrying |  | P.73  P.76 |  |
|  |  |  | L10 Dividing by 4 and 5 without remainder for number less than 500 |  | P.78 |  |
|  |  |  | Measurement  L6. Division of capacity measurements by a whole number  L7 Importance of capacity measurements  Unit | Observation  Manipulation | P.154  P.154  P.155 |  |

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|  |  |  | * Attentiveness * Dely on the objective * Attentive observation * Precise drawing * Ability to estimate the length of the objects * Differentiate cutting lines, crossing lines and perpendicular lines * Development of self-responsibility |  |  |  |
|  |  |  | * Development of reasoning * Differentiate the lines * Effective observation and concentration * Sharing ability of Good management * Saving and honesty |  |  |  |

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| **WEEK 6**  **13-17/03/2023** | Unit 11  Grids |  | Numeration  L11. Word problems involving the division of a two or 3 digits numbers less than 500 by 4 and 5 without remainder  L12. Unit Assessment  L01 counting, reading and writing numbers from 0 to 1000  Measurement  L01 Kilogram as a standard  Unit of mass  L2 Measuring masses of objects in kg and types of balances  L3 Comparing and arranging masses (weights) of objectifs  L4 Addition of masses in kilogram and related word  Geometry  L1 characterists of a grid and construction of a grid  L2. Put a point on a grid | Group work  Observation  Imitation  Group work  Group work | P.80  P.82  P.88  P.158  P.159  P.161  P.162  P.202 |  |
|  |  |  | Numeration  L2 Place value of each digit for numbers from 0 up to 999  L3. Comparing and arranging whole numbers up to 999  L4 Addition of numbers whose sum does not exceed 1000  Measurement  L5 Subtraction of masses in kilogram related word problems  L6 Multiplication of mass measurements by a whole number and related word problems  Geometry  L3 Locating a point on a grid  L4 Unit assessment | Observation  Discussion  Observation  Group work | P.88  P.92  P.95  P.164  P.165 |  |
|  |  |  | Numeration  L4 Subtraction of numbers whose minued does not exceed 1000  L5. Word problems involving addition and subtraction of numbers from 0 to 1000  L6 Multiplication table of 6 and multiples of 6  L7. Multiplying two or three digit numbers by 6 | Imitation  Counting | P.203  P.101  P.103  P.106 |  |

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| **WEEK 7**  **20-24/02/2023** | Unit 8. Rwandan currency from 1F up to 1000 F  Unit 12 Square, Rectangle and triangle | Measurement  L1 Features of Rwandan currency from 1F to 1000F  L2. Uses of money and source of money  Geometry  L1 Properties of a square  L2 Finding the perimeter of a square | * Complete the progression and regression * Find the unknown * Complete the measurements units in the conversion table * Problem resolution * Recall for 4 operations * Hygiene of the objects and domestics objects * Differentiate class objects and domestics objects * Precise measure of the given distance * Distinction of cutting lines * Ability to know the purpose of progression * Ability to repeat the signs to be used | Observation  Counting  Questions and answers | P.171  P.208  P.209 |  |
| **WEEK 8**  **27/02-03/03/2023** |  | Numeration  L8 Dividing numbers less than 1000 by 6 without remainder  L9. Word problems involving the division of a number by 6  L10. Multiplication of whole numbers by 10 or by 100 | * Complete the progression and regression * Find the unknown * Complete the measurements units in the conversion table * Problem resolution * Recall for 4 operations * Hygiene of the objects and domestics objects * Differentiate class objects and domestics objects * Precise measure of the given distance * Distinction of cutting lines * Ability to know the purpose of progression * Ability to repeat the signs to be used | Manipulation  Work work | P.108  P.110  P.112 |  |
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|  |  | Measurement  L3. Buying and selling goods  L4 Exchange on currency from 1F up to 1000  Geometry  L3. Properties of a rectangle | * Complete the progression and regression * Find the unknown * Complete the measurements units in the conversion table * Problem resolution * Recall for 4 operations * Hygiene of the objects and domestics objects * Differentiate class objects and domestics objects * Precise measure of the given distance * Distinction of cutting lines * Ability to know the purpose of progression * Ability to repeat the signs to be used | Group work  Observation  Observation | P.174 |  |
| **WEEK 9**  **6-10/03/2023** |  | Numeration  L11 assessment of unit 3  L1 Reading, writing and shading the fractions: 1  2  L2 reading , writing and shading fractions : 1  4  L3 Reading , writing and shading fractions: 1  8 | * Complete the progression and regression * Find the unknown * Complete the measurements units in the conversion table * Problem resolution * Recall for 4 operations * Hygiene of the objects and domestics objects * Differentiate class objects and domestics objects * Precise measure of the given distance * Distinction of cutting lines * Ability to know the purpose of progression * Ability to repeat the signs to be used | Group work  Observation | P.115  P.119  P.121  P.121 |  |
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|  |  | Measurement  L5 Good use and management of money  L6 Saving money and small income generating projects  Geometry  L4 Finding the of a rectangle | * Complete the progression and regression * Find the unknown * Complete the measurements units in the conversion table * Problem resolution * Recall for 4 operations * Hygiene of the objects and domestics objects * Differentiate class objects and domestics objects * Precise measure of the given distance * Distinction of cutting lines * Ability to know the purpose of progression * Ability to repeat the signs to be used | Group work  Counting  Counting | P.177  P.177  P.210 |  |
| **WEEK 10**  **12-16/06/2023** | **REVISION** | | | | | |
| **WEEK 11**  **12-16/06/2023** | **EXAMS** | | | | | |
| **WEEK 12**  **12-16/06/2023** | **MARKING** | | | | | |
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**THIRD TERM**

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|  |  | **Numeration** |  |  |  |  |
| **WEEK 1**  **17-21/04/2023** | Unit 4 | L4 comparing fractions  1 ; 1 and 1  2 4 8  L5 Combine fractions to make a whole  L6. Importance of fractions |  | P. 121  P. 121  P. 125 |  |  |
| **WEEK 2**  **24-28/04/2023** |  | Measurement  L6. Saving money and small income generating projects  L7 Comparing the amount of money that does not exceed 1000 F.  Geometry  L5 Properties of a triangle |  | P. 177 |  |  |
| **WEEK 3**  **01-05/04/2023** | Unit 5 | Numeration  Unit assessment |  | P.212 |  |  |
|  |  | Measurement  L8. Addition and subtraction of Rwandan currency whose sum that does not exceed 1000 F. |  | P.179 |  |  |
|  |  | Geometry  L6. To find the perimeter of a triangle |  | P.213 |  |  |
| **WEEK 4**  **08-12/04/2023** | Unit 13  Missing numbers in addition subtraction and division | Numeration  L1. To find the missing number in addition  L2. To find the prissing number in subtraction  Measurement  L9. Multiplication of an amount of money by a whole number  L10. Division of an amount of money by a whole number |  | P.180  P.180 |  |  |
|  |  | Geometry  Unit assessment |  | P.215 |  |  |
| **WEEK 5**  **15-19/05/2023** | Unit 14 pictographs simple graphs | Numeration  L2. To find the missing number in multiplication  L3 To find the missing number in division  Measurement  L1 Unit assessment  Geometry  L1. Reading or grouping the number of objects on a pictograph |  | P.219  P.219  P.183  P.226 |  |  |
| **WEEK 6**  **22-26/05/2023** | Unit 9  Hour, months of the year and days of each month | Numeration  L3 Number pattern  Measurement  L1 Reading , telling a hour of 0’ clock  Geometry  L2 discribing and interpreting pictographs used |  | P.220  P.186  P.227 |  |  |
| **WEEK 7**  **29/05-02/06/2023** |  | Numeration  L4 Finding the missing number in a number pattern  L5 Unit assessment  Measurement  L2. Reading, telling and writing a half past for 30 min past an hour  Geometry  L2. Discribing and interpreting pictographs used to show : number of objects |  | P.187 |  |  |
| **WEEK 8**  **05-09/06/2023** |  | Numeration  L5 Exercises involving missing number in addition, subtraction  L6 Exercises on missing number in multiplication and division |  |  |  |  |
| **WEEK 9**  **12-16/06/2023** |  | Measurement  L3 The calendar: Days of the week  L4 Making a pictographs with the given information objects  Geometry  L4 Making a pictographs with the given information objects |  | P.188  P.189  P.228 |  |  |
| **WEEK 10**  **19-23/06/2023** |  | Numeration  L6 Exercises on number pattern  Measurement  L4 Planning daily weekly and monthly activities  L5 Unit assessment |  | P.191 |  |  |
|  |  | Geometry  L5. Making a pictographs with the given information objects  L6. Unit assessment |  |  |  |  |
| **WEEK 11**  **26-30/06/2023** | **REVISION** | | | | | |
| **WEEK 12**  **03-07/07/2023** | **EXAMS** | | | | | |
| **WEEK 13**  **10-14/07/2023** | **CORRECTION** | | | | | |
| **WEEK 14**  **17-19/07/2023** | **PNLE** | | | | | |
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