**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 200L3 –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 5Unit 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 Publishers195 Highland Publishers |  |
| **WEEK 5****24-28/10/2022** | Unit1Unit5 Unit10 | Numeration L7 –Expanded form L8- Reading and writing number between 100-200L10 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 PublishersP41 Highland PublishersP42 Highland PublishersP129 Highland PublishersP1955 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 worksObservationAnalysis Observation Count objects in groups Observation Group works  | P 50 Highland PublishersP130 Highland PublishersP131 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, subtractionL6 Measurement Exercises about length measurement **Geometry** Various exercises on the lines seen  |  | Questions and answers Group works  | P51 Highland PublishersP141 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 | NumerationL2. 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 500L3 Company numbers from 200 up to 500 MeasurementL1. 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 PublishersP.62 Highland PublishersP.144 Highland Publishers |  |

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|  | Unit 10 lines and Angles | L2. Comparing capacity measurement of liquidsL3 Addition of capacities expressed in litersGeometryL1. Types of anglesL2. 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
 | CountingObservation  |  | P.146P.148P.196P.197 |
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| **WEEK 4****30/01-03/02/2023** |  | NumerationL4. Addition of numbers whose sum does not exceed to 500L5. Subtraction of numbers within the range 500L6. Word problems involving addition and subtraction of numbersL7. 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 groupsObservation |  | P65P.68P.70P.73 |
|  |  |  | * Draw and name those lines
* Explain the place value
* Hundreds
* Tens

Skills* Memorize
* Read, write and compare
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|  |  |  | * 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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|  |  |  | MeasurementL4 subtraction or difference of capacities in litresL5. Multiplication of units of capacity per a whole numbersGeometryL3 comparing anglesL4 Unit assessment | ImitationQuestion and answers | P.149P.151P.199 |  |
| **WEEK 5****06-10/02/2023** |  |  | NumerationL8 Multiplication by 5L9 Multiplying 2 digits numbers by 4&5 without carrying  |  | P.73P.76 |  |
|  |  |  | L10 Dividing by 4 and 5 without remainder for number less than 500 |  | P.78 |  |
|  |  |  | MeasurementL6. Division of capacity measurements by a whole numberL7 Importance of capacity measurementsUnit  | ObservationManipulation | P.154P.154P.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
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|  |  |  | * 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 11Grids  |  | NumerationL11. Word problems involving the division of a two or 3 digits numbers less than 500 by 4 and 5 without remainderL12. Unit AssessmentL01 counting, reading and writing numbers from 0 to 1000MeasurementL01 Kilogram as a standard Unit of massL2 Measuring masses of objects in kg and types of balancesL3 Comparing and arranging masses (weights) of objectifsL4 Addition of masses in kilogram and related wordGeometryL1 characterists of a grid and construction of a gridL2. Put a point on a grid | Group workObservationImitation Group workGroup work | P.80P.82P.88P.158P.159P.161P.162P.202 |  |
|  |  |  | NumerationL2 Place value of each digit for numbers from 0 up to 999L3. Comparing and arranging whole numbers up to 999L4 Addition of numbers whose sum does not exceed 1000MeasurementL5 Subtraction of masses in kilogram related word problemsL6 Multiplication of mass measurements by a whole number and related word problemsGeometryL3 Locating a point on a gridL4 Unit assessment | ObservationDiscussionObservationGroup work | P.88P.92P.95P.164P.165 |  |
|  |  |  | NumerationL4 Subtraction of numbers whose minued does not exceed 1000L5. Word problems involving addition and subtraction of numbers from 0 to 1000L6 Multiplication table of 6 and multiples of 6L7. Multiplying two or three digit numbers by 6 | ImitationCounting | P.203P.101P.103P.106  |  |

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| **WEEK 7****20-24/02/2023** | Unit 8. Rwandan currency from 1F up to 1000 FUnit 12 Square, Rectangle and triangle | Measurement L1 Features of Rwandan currency from 1F to 1000FL2. Uses of money and source of moneyGeometryL1 Properties of a squareL2 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
 | ObservationCounting Questions and answers | P.171P.208P.209 |  |
| **WEEK 8****27/02-03/03/2023** |  | NumerationL8 Dividing numbers less than 1000 by 6 without remainderL9. Word problems involving the division of a number by 6L10. 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
 | ManipulationWork work | P.108P.110P.112 |  |
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|  |  | MeasurementL3. Buying and selling goodsL4 Exchange on currency from 1F up to 1000GeometryL3. 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 workObservationObservation  | P.174 |  |
| **WEEK 9****6-10/03/2023** |  | Numeration L11 assessment of unit 3L1 Reading, writing and shading the fractions: 1 2L2 reading , writing and shading fractions : 1 4L3 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 workObservation  | P.115P.119P.121P.121 |  |
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|  |  | MeasurementL5 Good use and management of moneyL6 Saving money and small income generating projectsGeometryL4 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 workCountingCounting  | P.177P.177P.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 fractions1 ; 1 and 12 4 8L5 Combine fractions to make a wholeL6. Importance of fractions |  | P. 121P. 121P. 125 |  |  |
| **WEEK 2****24-28/04/2023** |  | MeasurementL6. Saving money and small income generating projectsL7 Comparing the amount of money that does not exceed 1000 F.GeometryL5 Properties of a triangle |  | P. 177 |  |  |
| **WEEK 3****01-05/04/2023** | Unit 5 | Numeration Unit assessment |  | P.212 |  |  |
|  |  | MeasurementL8. Addition and subtraction of Rwandan currency whose sum that does not exceed 1000 F. |  | P.179 |  |  |
|  |  | GeometryL6. To find the perimeter of a triangle |  | P.213 |  |  |
| **WEEK 4****08-12/04/2023** | Unit 13Missing numbers in addition subtraction and division | NumerationL1. To find the missing number in additionL2. To find the prissing number in subtractionMeasurementL9. Multiplication of an amount of money by a whole numberL10. Division of an amount of money by a whole number |  | P.180P.180 |  |  |
|  |  | GeometryUnit assessment |  | P.215 |  |  |
| **WEEK 5****15-19/05/2023** | Unit 14 pictographs simple graphs | Numeration L2. To find the missing number in multiplicationL3 To find the missing number in divisionMeasurementL1 Unit assessmentGeometry L1. Reading or grouping the number of objects on a pictograph |  | P.219P.219P.183P.226 |  |  |
| **WEEK 6****22-26/05/2023** | Unit 9Hour, months of the year and days of each month | NumerationL3 Number patternMeasurementL1 Reading , telling a hour of 0’ clockGeometryL2 discribing and interpreting pictographs used |  | P.220P.186P.227 |  |  |
| **WEEK 7****29/05-02/06/2023** |  | NumerationL4 Finding the missing number in a number patternL5 Unit assessmentMeasurementL2. Reading, telling and writing a half past for 30 min past an hourGeometryL2. 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, subtractionL6 Exercises on missing number in multiplication and division |  |  |  |  |
| **WEEK 9****12-16/06/2023** |  | MeasurementL3 The calendar: Days of the weekL4 Making a pictographs with the given information objectsGeometry L4 Making a pictographs with the given information objects |  | P.188P.189P.228 |  |  |
| **WEEK 10****19-23/06/2023** |  | NumerationL6 Exercises on number patternMeasurementL4 Planning daily weekly and monthly activitiesL5 Unit assessment |  | P.191 |  |  |
|  |  | GeometryL5. Making a pictographs with the given information objectsL6. 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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