**MATHEMATICS SCHEMES OF WORK**

**STANDARD 6, 2019**

**MATHEMATICS SCHEME OF WORK CLASS 6**

**TERM 1**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **WEEK** | **LESSON** | **TOPIC** | **SUB TOPIC** | **OBJECTIVES** | **T/L ACTIVITIES** | **T/LEARNING RESOURCES** | **REFF** | | **REM** |
| **1** | **Opening and Revisions** | | | | | | | |  |
| **2** | **1&2** | **NUMBERS**  **WHOLE NUMBERS** | **Place value and total value.** | By the end of the lesson learners should be able to:  a) recognize and identify place  value and total value upto  hundreds of millions  b) read and write numbers up to  millions in symbols and in  words | * The teacher will write a number on the chalk board. * Let learners identify the place value of the digits in the number. * Reading numbers aloud. * Exercises | Chalk board, Exercise books  Primary pupil’s book | | Primary mathematics Pupils book |  |
|  | **3** | **Reading and writing numbers up**  **to millions in symbols and word.** | By the end of the lesson learners should be able to:  Read and write numbers up to  millions in symbols and in  words | * Listing multiples of numbers * Reading numbers | Multiplication tables | | Primary mathematics Pupils book |  |
|  | **4** |  | **Rounding off numbers.** | By the end of the lesson learners should be able to:  Round off numbers to the  nearest thousands | * Repeat place value. * Discussion on the difference between place value and total value. * Working out | Multiplication tables | | Primary mathematics Pupils book |  |
|  | **5** | **Divisibility test for 8.** | By the end of the lesson learners should be able to:  Recognize and identify  numbers divisible by eight | * Multiplying numbers * Dividing Numbers | Multiplication tables  Charts with list of whole numbers up to 100 | | Primary mathematics Pupils book 6 |  |
|  | **6&7** | **Squares of numbers**  **1.3.6**  **Square roots of perfect squares** | By the end of the lesson learners should be able to  a) identify and work out  squares of numbers  b) work out squares of up to  perfect squares of up to  3- digit numbers | identify and work out  squares of numbers | Primary mathematics Pupils book 6 | | Primary mathematics Pupils book 6 |  |
| **3** | **1** | **FRACTIONS** | **Reciprocals** | By the end of the lesson learners should be able to  a)Recognize and identify  reciprocals of numbers  b)Solve problems relating to reciprocal s of numbers | Recognizing and identifying  reciprocals of numbers | Primary mathematics Pupils book 6 | | Primary mathematics Pupils book 6 |  |
|  | **2&3** |  | **Squares of fractions** | By the end of the lesson learners should be able to  Recognize and identify  Squares of  fractions involving perfect  squares | **Working out squares of fractions** | Primary mathematics Pupils book 6  **Charts and drawings of squares** | | Primary mathematics Pupils book 6 |  |
|  | **4** | **EXERCISE** | Evaluation exercise on whole numbers | By the end of the lesson learners should be able to  **Complete an Evaluation exercise on whole numbers** | **Evaluation exercise on** | Primary mathematics Pupils book 6 | | Primary mathematics Pupils book 6 |  |
|  | **5** | Square roots of fractions | By the end of the lesson learners should be able to  Recognize and identify  square roots of  fractions involving perfect  squares | **Working out squares roots of fractions** | Primary mathematics Pupils book 6  **Charts and drawings of squares** | | Primary mathematics Pupils book 6 |  |
|  | **6&7** | **EXERCISE** | Evaluation exercise on whole numbers | By the end of the lesson learners should be able to  **Complete an Evaluation exercise on Fractions** | **Evaluation exercise on Fractions** | Primary mathematics Pupils book 6  **Charts and drawings of squares** | | Primary mathematics Pupils book 6 |  |
| **4** | **1** | **DECIMALS** | Place value up to 4 decimal  places | By the end of the lesson learners should be able to  Recognize and identify place  value up to 4 decimal places  given | **Recognizing place values**  **Working on decimals** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **2&3** | Rounding off decimals to a given  numbers of places | By the end of the lesson learners should be able to  Round off a number to a given  number of decimal places | **Practicing rounding off of numbers**  **Class discussions** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **4** |  | Conversion of fractions to  decimals | By the end of the lesson learners should be able to  Convert fractions to decimals  with and without recurring | **Practicing rounding off of numbers**  **Class discussions** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **5** | Conversion of decimals to  Fractions | By the end of the lesson learners should be able to |  |  | | Primary mathematics Pupils book 6 |  |
|  | **6&7** | **EXERCISE** | Evaluation exercise on Decimals | By the end of the lesson learners should be able to  **Complete an Evaluation exercise on Decimals** | **Evaluation exercise on Decimals** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
| **5** | **1** | **PERCENTAGES** | Percentage as a fraction  4.2.2 Using the (%) symbol. | By the end of the lesson learners should be able to  a)Recognize and identify  percentage as a fraction  **b)Work out percentages** | **-Drawing a hundred square grid**  **-Listing equivalent fractions**  **-Converting fractions and decimals to percentages** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **2&3** | Conversion of fractions to  percentage | By the end of the lesson learners should be able to  convert fractions and  decimals to percentage | **Converting fractions/Decimals to percentages and vice versa** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **4** | **EXERCISE** | Evaluation exercise on Percentages | By the end of the lesson learners should be able to  **Complete an Evaluation exercise on percentages** | **Evaluation exercise on Decimals** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **5** | Conversion of decimals to  Percentage | By the end of the lesson learners should be able to  Convert decimals to  percentages | **-Converting decimals to fractions**  **-Converting fractions and decimals to percentage** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **6&7** | **EXERCISE** | Evaluation exercise on Percentages | By the end of the lesson learners should be able to  **Complete an Evaluation exercise on percentages** | **Evaluation exercise on Decimals** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
| **6** | **1&2** | convert percentage to  fractions and decimals | By the end of the lesson learners should be able to  Convert percentage to  fractions and decimals  multiply a fraction by a  fraction and mixed numbers  by a fraction | **Converting fractions/Decimals to percentages and vice versa** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **3** | Conversion of percentage to  decimals | By the end of the lesson learners should be able to  convert percentages to  fractions and decimals | **Converting percentages to fractions** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **4** | **EXERCISE** | Evaluation exercise | By the end of the lesson learners should be able to  **Complete an Evaluation exercise** | **Evaluation exercise on Decimals** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **5** |  | Conversion of percentage to  decimals | By the end of the lesson learners should be able to  a)Divide a whole number by a  fraction  b)Divide a fraction by a fraction | **-Convert fractions/decimals into percentages and vise versa**  **-Work out fractions of given quantities and vise versa**  **-Calculating amount from percentages** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **6&7** |  | Conversion of percentage to  decimals | By the end of the lesson learners should be able to  a)Work out division involving  mixed numbers  b) Recognize and identify  number sequence involving  fractions | **-Convert fractions/decimals into percentages and vise versa**  **-Work out fractions of given quantities and vise versa**  **-Calculating amount from percentages** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
| **7** | **Mid Term Exams and Closing** | | | | | | | |  |
| **8** | **1** | **OPERATIONS**  **WHOLE NUMBERS** | Addition and subtraction of  numbers | By the end of the lesson learners should be able to:  Add and subtract numbers |  | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **2** |  | Multiplication of numbers | By the end of the lesson learners should be able to:  Multiply numbers | **Work on numbers**  **Class discussions** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **3&4** |  | Division of up to 5- digit  numbers by up to 2- digit  numbers with divisor less then  the dividend | By the end of the lesson learners should be able to:  Divide up to 5- digit numbers  by up to 2- digit numbers | **Dividing numbers** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **5** |  | Number sequences | By the end of the lesson learners should be able to:  Recognize and identify simple  number sequence | -multiples of numbers  Reading numbers | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **6&7** |  | Working out problems involving  LCM and GCD | By the end of the lesson learners should be able to:  Work out problems involving  LCM and GCD in real life | -Listing multiples of numbers  Reading numbers | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
| **9** | **1&2** | **FRACTIONS** | Addition of  fractions | By the end of the lesson learners should be able to:  Work out problems relating to Addition of fractions  Multiply a fraction by a  fraction and mixed numbers  by a fraction | **-Addition of fraction**  **-Subtracting fractions and mixed numbers** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **3** |  | Subtraction of  fractions | By the end of the lesson learners should be able to:  Work out problems relating to subtraction of fractions | **-Addition of fraction**  **-Subtracting fractions and mixed numbers** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **4** | Addition of  fractions and mixed numbers | By the end of the lesson learners should be able to:  Work out problems relating to addition of fractions and mixed numbers | **-Addition of fraction**  **-Subtracting fractions and mixed numbers** | rimary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **5** | Subtraction of  fractions and mixed numbers | By the end of the lesson learners should be able to:  Work out problems relating to subtraction fractions and mixed numbers | **-Addition of fraction**  **-Subtracting fractions and mixed numbers** | rimary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **6&7** | **Multiplication of fractions by**  **fractions Multiplication of mixed numbers**  **by fractions** | By the end of the lesson learners should be able to:  divide a whole number by a  fraction | **-Multiplying fractions by fractions**  **-Class discussion of multiplying fractions** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
| **10** | **1** | **Division of a whole number by a**  **fraction** | By the end of the lesson learners should be able to:  recognize and identify  number sequence involving  fractions | **-Dividing of whole numbers** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **2&3** |  | **Division of a fraction by a**  **fraction**  **Division involving mixed**  **numbers**  **Number sequence involving**  **fractions** | By the end of the lesson learners should be able to  a)Divide fraction by a  fraction  **b)** Do division involving mixed  numbers  **c)Wok out n**umber sequence involving  fractions | **-Dividing of fraction by a fraction**  **-Revise on division involving numbers**  **-Revise and work out numbers sequence involving fractions** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **4** | **Addition and subtraction of**  **decimals** | By the end of the lesson learners should be able to:  Add and subtract decimals up  to 4 decimal places | **-Practice addition of decimals**  **-Work out subtraction of decimals** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **5&6** | **Multiplication of decimals by**  **decimals**  **Division of decimals by whole**  **numbers** | By the end of the lesson learners should be able to:  Multiply decimals with  products not exceeding 4  decimal places  Divide decimals by whole  numbers and vice versa | **-Multiplying of decimals**  **-Dividing decimals by whole numbers and vice versa** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **7** |  | **Division of whole numbers by a**  **decimal** | By the end of the lesson learners should be able to:  Divide a decimal by a decimal | **Dividing whole numbers by a decimal** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
| **11** | **1&2** | **Division of whole numbers by a**  **decimal**  **Division of a decimal by a**  **decimal** | By the end of the lesson learners should be able to: | **Dividing a decimal by a decimal** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **3** | **PERCENTAGES** | **Percentage of quantities** | By the end of the lesson learners should be able to:  The leaner  should be able to work out  quantities given | **-Work out quantities**  **-Discuss quantities** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **Percentage of quantities** | By the end of the lesson learners should be able to:  The leaner  should be able to work out  quantities given | **-Work out quantities**  **-Discuss quantities** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **4** | **MEASUREMENT**  **LENGTH** | **Millimetre as a unit of length** | By the end of the lesson learners should be able to:  Recognize and identify  millimeters as a unit of  measuring length | **-Identifying millimeters**  **-Measuring length** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **5** | **Conversion of millimeters to**  **centimeters and vice versa** | By the end of the lesson learners should be able to:  Convert millimeters to  centimeters and centimeters  to millimeters | **-Millimeters and centimeters conversion** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **6&7** |  | **Pi ( ) as a relationship between**  **circumference and diameter,**  **practically** | By the end of the lesson learners should be able to:  Recognize and identify pi( )  as a relationship between  circumference and diameter | **-Recognizing and identifying circumference and diameter** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
| **12** | **1&2** | **Circumference of a circle** | By the end of the lesson learners should be able to:  work out problems involving  circumference of a circle | **-Asking and answering questions of problems involving circumference of a circle** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **3** | **AREA** | **recognize and identify area**  **and hectare as units of**  **measuring areas** | By the end of the lesson learners should be able to:  Recognize and identify area  and hectare as units of  measuring areas | **-Discussing**  **-Asking and answering questions** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **4** |  | **work out area of a triangle, a**  **square and a rectangle** | By the end of the lesson learners should be able to:  Work out area of a triangle, a  square and a rectangle | **-Discussing**  **-Asking and answering questions** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **5** | **work out area of a triangle, a**  **square and a rectangle** | By the end of the lesson learners should be able to:  Work out area of a triangle, a  square and a rectangle | **-Discussing**  **-Asking and answering questions** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **6&7** | **EXERCISE** | **Evaluation exercise** | By the end of the lesson learners should be able to  **Complete an Evaluation exercise** | **Evaluation exercise on Decimals** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
| **13** | **Revisions and preparations for End Term 1 Exams** | | | | | | | |  |
| **14** | **End Term 1 Exams and Closing** | | | | | | | |  |
|  | **TEM 11** | | | | | | | |  |
| **1** | **Opening and Revisions** | | | | | | | |  |
| **2** | **1&2** | **VOLUME** | **Cubic metre (m3) as a unit of**  **measuring volume** | By the end of the lesson learners should be able to:  recognize and identify Cubic metre (m3) as a unit of  measuring volume | **-Discussing**  **-Asking and answering questions** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **3** |  | **Conversion of cubic metres to**  **cubic centimeters and vice versa** | By the end of the lesson learners should be able to:  convert cubic metre (m3) to  cubic centimeter (cm3) and  cubic centimeters to cubic  metre | **-Discussing**  **-Asking and answering questions** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **4** | **Volumes of cubes and cuboids** | By the end of the lesson learners should be able to:  work out problems involving  volume of cubes and cuboids  in cubic metre (m3) and cubic  centimeter (cm3) | **-Discussing**  **-Asking and answering questions**  **-Measuring volumes** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **5** | **EXERCISE** | **Evaluation exercise** | By the end of the lesson learners should be able to  **Complete an Evaluation exercise** | **Evaluation exercise on Decimals** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **6&7** | **CAPACITY** | **Decilitre (dl) as a unit of measuring**  **capacity** | By the end of the lesson learners should be able to:  Recognize and identify  deciliter as a unit of  Measuring capacity. | **-Measure capacity**  **-Askind ans answering quations**  **-Discussions** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
| **3** | **1&2** |  | By the end of the lesson learners should be able to: |  | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **3** | **Conversion of mililitres to litres**  **and litres to deciliters and vice**  **versa** | By the end of the lesson learners should be able to:  Convert litres to milliliters,  litres to deciliters and  deciliters to litre | **-Measure capacity**  **-Askind ans answering quations**  **-Discussions** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **4** |  | **Addition and subtraction involving**  **litres, milliliters and deciliters** | By the end of the lesson learners should be able to:  Add and subtract litres, milliliters and deciliters | **-Measure capacity**  **-Askind ans answering quations**  **-Discussions** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **5** | **Multiplication and division**  **involving litres, deciltres and**  **milliliters** | By the end of the lesson learners should be able to:  Multiply and divide litres, deciltres and milliliters | **-Measure capacity**  **-Askind ans answering quations**  **-Discussions** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **6&7** | **EXERCISE** | **Evaluation exercise** | By the end of the lesson learners should be able to  **Complete an Evaluation exercise** | **Evaluation exercise on Decimals** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
| **4** | **1&2** | **MASS** | **Tonne (t) as a unit of measuring**  **mass** | By the end of the lesson learners should be able to:  Recognize and identify the  tone (t) as a unit of  measuring mass | **-Measure mass**  **-Askind ans answering questions E-mail: infosnkenya@gmail.com |**  **-Discussions** | Primary mathematics Pupils book 6  **Charts and drawings**  **Containers that can hold liquid** | | Primary mathematics Pupils book 6 |  |
|  | **3** |  | **Conversion involving tones (t),**  **kilogram (kg) and grams (g).** | By the end of the lesson learners should be able to:  convert tones to kilograms,  kilograms to grams and  grams to kilograms to grams | **-Measure mass**  **-Askind ans answering quations**  **-Discussions** | Primary mathematics Pupils book 6  **Charts and drawings**  **Containers that can hold liquid** | | Primary mathematics Pupils book 6 |  |
|  | **4** | **Operations involving tone (t),**  **kilogram (kg) and gram (g).** | By the end of the lesson learners should be able to:  Work out problem involving  units of mass | **-Measure mass**  **-Askind ans answering quations**  **-Discussions** | Primary mathematics Pupils book 6  **Charts and drawings**  **Containers that can hold liquid** | | Primary mathematics Pupils book 6 |  |
|  | **5** | **EXERCISE** | **Evaluation exercise** | By the end of the lesson learners should be able to  **Complete an Evaluation exercise** | **Evaluation exercise on Decimals** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **6&7** | **Revision** | **Revision** | **Revision** | **Revision** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
| **5** | **1&2** | **MONEY** | **Bills in buying and selling** | By the end of the lesson learners should be able to:  Work out problems involving  bills in buying and selling | **-Discuss buying and selling**  **-Calculate loses and profits**  **-Asking and answering questions** | **Class shop**, buying and selling items,  Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **3** | **Profit and loss** | By the end of the lesson learners should be able to:  Work out problems involving  profit and loss | **-Discuss buying and selling**  **-Calculate loses and profits**  **-Asking and answering questions** | **Class shop**, buying and selling items,  Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **4** | **Percentage profit and loss** | By the end of the lesson learners should be able to:  Work out percentage  involving profit and loss | **-Discuss buying and selling**  **-Calculate loses and profits**  **-Asking and answering questions** | **Class shop**, buying and selling items,  Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **5** | **EXERCISE** | **Evaluation exercise** | By the end of the lesson learners should be able to  **Complete an Evaluation exercise** | **Evaluation exercise on Decimals** | **Class shop**, buying and selling items,  Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **6&7** | **Class -work** | **Class Discussions** | By the end of the lesson learners should be able to:  **Be able to interact and help one another in difficult areas.** | **-Interacting and discussions**  **-Helping one another.** | Primary mathematics Pupils book 6 | | Primary mathematics Pupils book 6 |  |
| **6** | **1&2** | **TIME AND SPEED** | **Converting minutes to seconds**  **and seconds to minutes** | By the end of the lesson learners should be able to:  Convert units of time from  one to another | **-Interacting and discussions**  **-Helping one another.**  **Reading Time** | Primary mathematics Pupils book 6 | | Primary mathematics Pupils book 6 |  |
|  | **3** | **Converting of the 12 hour system**  **to 24 hours system and24 hour**  **System to 12 hour system.** | By the end of the lesson learners should be able to:  Convert time from one system  to another | **-Interacting and discussions**  **-Helping one another.**  **Reading Time**  **-Calculating Time** | Primary mathematics Pupils book 6 | | Primary mathematics Pupils book 6 |  |
|  | **4** | **Reading and interpreting air, bus**  **and train time tables** | By the end of the lesson learners should be able to:  recognize and identify speed  as distance covered in unit  time | **-Interacting and discussions**  **-Helping one another.**  **Reading Time**  **-Calculating Time** | Primary mathematics Pupils book 6 | | Primary mathematics Pupils book 6 |  |
|  | **5** |  | **Speed in kilometers per hour**  **(km/h) and metres per**  **second(m/s** | By the end of the lesson learners should be able to:  Read and interpret air, bus and  train time tables | **-Interacting and discussions**  **-Helping one another.**  **Reading Time**  **-Calculating Time** | Primary mathematics Pupils book 6 | | Primary mathematics Pupils book 6 |  |
|  | **6&7** | **Work out problems involving**  **speed** | By the end of the lesson learners should be able to:  Work out problems involving  speed in m/s and km/h | **-Interacting and discussions**  **-Helping one another.**  **Reading Time**  **-Calculating Time** | Primary mathematics Pupils book 6 | | Primary mathematics Pupils book 6 |  |
| **7** | **Mid Term 11 Exams and Closing** | | | | | | | |  |
| **8** | **1** | **GEOMETRY**  **LINES** | **Drawing lines**  **using rulers and pair of**  **compasses** | By the end of the lesson learners should be able to:  Draw lines  using rulers and pair of  compasses | **-Helping one another.**  **Reading Time**  **-Drawing and bisecting lines** | Primary mathematics Pupils book 6  **Charts and drawings** ruler pair of  compasses | | Primary mathematics Pupils book 6 |  |
|  | **2&3** | **Bisecting lines**  **using rulers and pair of**  **compasses** | By the end of the lesson learners should be able to:  Bisect lines  using rulers and pair of  compasses | **-Helping one another.**  **Reading Time**  **-Drawing and bisecting lines** | Primary mathematics Pupils book 6  **Charts and drawings** ruler pair of  compasses | | Primary mathematics Pupils book 6 |  |
|  | **4** |  | **Perpendicular lines** | By the end of the lesson learners should be able to:  Construct perpendicular lines using a ruler and a pair of compasses | **-Helping one another.**  **Reading Time**  **-Drawing and bisecting lines** | Primary mathematics Pupils book 6  **Charts and drawings** ruler pair of  compasses | | Primary mathematics Pupils book 6 |  |
|  | **5** | **Parallel lines from a point on the**  **line** | By the end of the lesson learners should be able to:  Construct per parallel lines using a ruler and a pair of compasses |  | Primary mathematics Pupils book 6  **Charts and drawings** ruler pair of  compasses | | Primary mathematics Pupils book 6 |  |
|  | **6&7** | **EXERCISE** | **Evaluation exercise** | By the end of the lesson learners should be able to  **Complete an Evaluation exercise** | **Evaluation exercise on Decimals** | Primary mathematics Pupils book 6  **Charts and drawings** ruler pair of  compasses **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
| **9** | **1** | **ANGLES** | **Vertically opposite angles** | By the end of the lesson learners should be able to:  Recognize identify and  measure vertically opposite  angles | **-Helping one another.**  **Reading Time**  **-Drawing angles** | Primary mathematics Pupils book 6  **Charts and drawings** ruler pair of  compasses | | Primary mathematics Pupils book 6 |  |
|  | **2&3** | **Supplementary angles** | By the end of the lesson learners should be able to:  Recognize identify and  measure supplementary angles | **-Helping one another.**  **Reading Time**  **-Drawing angles** | Primary mathematics Pupils book 6  **Charts and drawings** ruler pair of  compasses | | Primary mathematics Pupils book 6 |  |
|  | **4** |  | **Construction of 90 o, 60 o, 120 o**  **45 o, 30 o, 75 o and 15 o** | By the end of the lesson learners should be able to:  Construct 90o, 60 o, 120 o, 45 o,  30 o, 75 o and 15 o using | **-Helping one another.**  **Reading Time**  **-Drawing angles** | Primary mathematics Pupils book 6  **Charts and drawings** ruler pair of  compasses | | Primary mathematics Pupils book 6 |  |
|  | **5** | **Bisecting angles** | By the end of the lesson learners should be able to:  Bisect angles using a pair of  compasses and a ruler | **-Helping one another.**  **Reading Time**  **-Drawing angles**  **-Bisecting angles** | Primary mathematics Pupils book 6  **Charts and drawings** ruler pair of  compasses | | Primary mathematics Pupils book 6 |  |
|  | **6&7** | **EXERCISE** | **Evaluation exercise** | By the end of the lesson learners should be able to  **Complete an Evaluation exercise** | **Evaluation exercise on Decimals** | Primary mathematics Pupils book 6  **Charts and drawings** ruler pair of  compasses **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
| **10** | **1** | **Drawing triangles** | By the end of the lesson learners should be able to:  Draw a triangle using a  protractor and a ruler | **-Helping one another.**  **Reading Time**  **-Drawing angles**  **-Bisecting angles** | Primary mathematics Pupils book 6  **Charts and drawings** ruler pair of  compasses | | Primary mathematics Pupils book 6 |  |
| **10** | **2&3** |  | **Interior and exterior angles of a**  **triangle** | By the end of the lesson learners should be able to:  Recognize and identify angle  properties of triangles | **-Helping one another.**  **Reading Time**  **-Drawing angles**  **-Bisecting angles** | Primary mathematics Pupils book 6  **Charts and drawings** ruler pair of  compasses | | Primary mathematics Pupils book 6 |  |
|  | **4** | **Making patterns** | By the end of the lesson learners should be able to:  Make patterns involving  squares, triangles and | **-Helping one another.**  **Reading Time**  **-Drawing angles**  **-Bisecting angles** | Primary mathematics Pupils book 6  **Charts and drawings** ruler pair of  compasses | | Primary mathematics Pupils book 6 |  |
|  | **5** | **CIRCLES** | **Drawing circles** | By the end of the lesson learners should be able to:  Draw circles using pair of  compasses | **-Helping one another.**  **Reading Time**  **-Drawing angles**  **-Bisecting angles** | Primary mathematics Pupils book 6  **Charts and drawings** ruler pair of  compasses | | Primary mathematics Pupils book 6 |  |
|  | **6&7** | **EXERCISE** | **Evaluation exercise** | By the end of the lesson learners should be able to  **Complete an Evaluation exercise** | **Evaluation exercise on Decimals** | Primary mathematics Pupils book 6  **Charts and drawings** ruler pair of  compasses **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
| **11** | **1&2** |  | **Centre, radius and diameter of a**  **circles.** | By the end of the lesson learners should be able to:  Draw circles using pair of  compasses | **-Helping one another.**  **Reading Time**  **-Drawing angles**  **-Bisecting angles** | Primary mathematics Pupils book 6  **Charts and drawings** ruler pair of  compasses | | Primary mathematics Pupils book 6 |  |
|  | **3** |  | **Sectors of circles** | By the end of the lesson learners should be able to:  Recognize and identify a  sector as a part of a circle | **-Helping one another.**  **Reading Time**  **-Drawing angles**  **-Bisecting angles** | Primary mathematics Pupils book 6  **Charts and drawings** ruler pair of  compasses | | Primary mathematics Pupils book 6 |  |
|  | **4** | **Making patterns** | By the end of the lesson learners should be able to:  Make patterns using circles | **-Helping one another.**  **Reading Time**  **-Drawing angles**  **-Bisecting angles** | Primary mathematics Pupils book 6  **Charts and drawings** ruler pair of  compasses | | Primary mathematics Pupils book 6 |  |
|  | **5** | **MODELS** | **Cubes and cuboids** | By the end of the lesson learners should be able to:  Recognize and identify  edges, faces and vertices of  cubes and cuboids | **-Helping one another.**  **Reading Time**  **-Drawing angles**  **-Bisecting angles** | Primary mathematics Pupils book 6  **Charts and drawings** ruler pair of  compasses | | Primary mathematics Pupils book 6 |  |
|  | **6&7** | **Nets of cubes and cuboids** | By the end of the lesson learners should be able to:  Make models of cubes and  cuboids | **-Helping one another.**  **Reading Time**  **-Drawing angles**  **-Bisecting angles** | Primary mathematics Pupils book 6  **Charts and drawings** ruler pair of  compasses | | Primary mathematics Pupils book 6 |  |
| **13** | **Revision and preparation for End Term 11 Exams** | | | | | | | |  |
| **14** | **End Term 11 Exams and Closing** | | | | | | | |  |
| **TERM 111** | | | | | | | | | |
| **1** | **Opening and Revisions** | | | | | | | |  |
| **2** | **1&2** | **ALGEBRA** | **Use of brackets in algebraic**  **expressions** | By the end of the lesson learners should be able to: | **-Helping one another.**  **-Discuss algebra** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **2&3** | **Simplifying algebraic**  **expressions** | By the end of the lesson learners should be able to:  Simplify algebraic  expressions | **-Helping one another.**  **-Discuss algebra** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **4** | **Equations in one unknown** | By the end of the lesson learners should be able to:  Solve equations in one  unknown | **-Helping one another.**  **-Discuss algebra** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **5** | **The symbols greater than (>) and**  **less than (<). 22.2.5** | By the end of the lesson learners should be able to:  Compare quantities using  ‘greater than’, ‘less than’ and  ‘equal to’ symbol | **-Helping one another.**  **-Discuss algebra** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **6&7** | **EXERCISE** | **Evaluation exercise** | By the end of the lesson learners should be able to  **Complete an Evaluation exercise** | **Evaluation exercise on Decimals** | Primary mathematics Pupils book 6  **Charts and drawings** ruler pair of  compasses **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
| **3** | **1** | **TABLES AND GRAPHS** | **Tables** | By the end of the lesson learners should be able to:  Represent data from tables on  graphs | **-Helping one another.**  **-Discuss algebra**  **-Drawing tables** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **2&3** | **Bar graphs** | By the end of the lesson learners should be able to:  Read and interpret  information, | **-Helping one another.**  **-Discuss algebra**  **-Drawing tables** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **4** | **Line graph** | By the end of the lesson learners should be able to:  Recognize, identify and work  out arithmetic means of a  given data | **-Helping one another.**  **-Discuss algebra**  **-Drawing tables** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **5** | **Pie charts** | By the end of the lesson learners should be able to:  Recognize, identify and work  out arithmetic means of a  given data | **-Helping one another.**  **-Discuss algebra**  **-Drawing tables** | Primary mathematics Pupils book 6  **Charts and drawings** | | Primary mathematics Pupils book 6 |  |
|  | **6&7** | **EXERCISE** | **Evaluation exercise** | By the end of the lesson learners should be able to  **Complete an Evaluation exercise** | **Evaluation exercise on Decimals** | Primary mathematics Pupils book 6 | | Primary mathematics Pupils book 6 |  |
| **4** | **1** |  | **Travel graphs** | By the end of the lesson learners should be able to:  Recognize, identify and work  out arithmetic means of a  given data | **-Helping one another.**  **-Discuss algebra**  **-Drawing tables** | Primary mathematics Pupils book 6 | | Primary mathematics Pupils book 6 |  |
|  | **2&3** | **Travel graphs** | By the end of the lesson learners should be able to:  Recognize, identify and work  out arithmetic means of a  given data | **-Helping one another.**  **-Discuss algebra**  **-Drawing tables** | Primary mathematics Pupils book 6 | | Primary mathematics Pupils book 6 |  |
|  | **4** | **EXERCISE** | **Evaluation exercise** | By the end of the lesson learners should be able to  **Complete an Evaluation exercise** | **Evaluation exercise on Decimals** | Primary mathematics Pupils book 6 | | Primary mathematics Pupils book 6 |  |
|  | **5** | **SCALE DRAWING** | **Interpreting drawing using linear**  **scale** | By the end of the lesson learners should be able to  Read, interpret and write  linear scales in statement  form | **-Helping one another.**  **-Discuss algebra**  **-Scale drawing** | Primary mathematics Pupils book 6 | | Primary mathematics Pupils book 6 |  |
|  | **6&7** | **Reading and writing linear scales**  **in statement form** | By the end of the lesson learners should be able to  read, interpret and write  linear scales in statement  form | **-Helping one another.**  **-Discuss algebra**  **-Scale drawing** | Primary mathematics Pupils book 6 | | Primary mathematics Pupils book 6 |  |
| **5** | **1** | **Making scale drawings** | By the end of the lesson learners should be able to  make scale drawing | **-Helping one another.**  **-Discuss algebra**  **-Scale drawing** | Primary mathematics Pupils book 6 | | Primary mathematics Pupils book 6 |  |
|  | **2&3** |  | **Reading and writing linear scales**  **in statement form** | By the end of the lesson learners should be able to  read, interpret and write  linear scales in statement  form | **-Helping one another.**  **-Discuss algebra**  **-Scale drawing** | Primary mathematics Pupils book 6 | | Primary mathematics Pupils book 6 |  |
|  | **4** | **Making scale drawings** | By the end of the lesson learners should be able to  make scale drawing | **-Helping one another.**  **-Discuss algebra**  **-Scale drawing** | Primary mathematics Pupils book 6 | | Primary mathematics Pupils book 6 |  |
|  | **5** | **Making scale drawings** | By the end of the lesson learners should be able to  make scale drawing | **-Helping one another.**  **-Discuss algebra**  **-Scale drawing** | Primary mathematics Pupils book 6 | | Primary mathematics Pupils book 6 |  |
|  | **6&7** | **EXERCISE** | **Evaluation exercise** | By the end of the lesson learners should be able to  **Complete an Evaluation exercise** | **Evaluation exercise on Decimals** | Primary mathematics Pupils book 6 | | Primary mathematics Pupils book 6 |  |
| **6-8** | **Revisions and preparations for End Term 111 Exams** | | | | | | | |  |
| **9** | **End Term 111 Exams and Closing** | | | | | | | |  |