**NYAMASHEKE DISTRICT**

**SCHEME OF WORK/ P4 MATHEMATICS**

**Academic year: 2023-2024 SChool: …………………………………………… Subject: MATHEMATICS**

**Teacher' s name: …………………………………………………………….. Class+Combination:………………………………………………………………..**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **TERM 1** | | | | | | |
| **Dates** | **Unit title** | **Lesson title +**  **Evaluation** | **Learning Objectives (Copied or adapted from the syllabus) + Key unit competence** | **Teaching methodology & techniques** | **Resources and references** | **Observati on** |
| WEEK1  25-  29/9/2023 | Unit 1  :Mathematical operations on whole numbers up to  100 000 | LESSON 1:Reading and writing numbers up to 100  000 in words | **Knowledge and understanding**:  Read written numerals correctly in english.  **Skills:**Correctly translate between written numerals and spoken English  **Attitudes and values:** Developing personal confidence in the use of numbers. | Group work ,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LLESSON 2: Reading and writing numbers  up to 100 000 in words | **Knowledge and understanding**:  Read written numerals correctly in english. **Skills**: Correctly translate between written numerals and spoken English  **Attitudes and values**: Developing personal confidence in the use of numbers. | Group work ,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 3: Reading and writing numbers  up to 100 000 in  words | **Knowledge and understandin**g:  Read written numerals correctly in english. **Skills**: Correctly translate between written numerals and spoken English  **Attitudes and values**: Developing personal confidence in the use of numbers. | Group work ,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 4: Reading and writing numbers up to 100 000 in words | **Knowledge and understandin**g:  Read written numerals correctly in english.  **Skills**: Correctly translate between written numerals and spoken English  **Attitudes and values**: Developing personal confidence in the use of numbers. | Group work ,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 5: Reading and writing numbers  up to 100 000 in words | **Knowledge and understanding**:  Read written numerals correctly in english. **Skill**: Correctly translate between written numerals and spoken English  **Attitude and value**: Developing personal confidence in the use of numbers. | Group work ,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | LESSON 6: Reading and writing numbers up to 100 000 in words | **Knowledge and understanding**:  Read written numerals correctly in english. **Skills**: Correctly translate between written numerals and spoken English  **Attitudes and values**: Developing personal confidence in the use of numbers. | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 7:Reading and writing numbers  up to 100 000 in words | **Knowledge and understanding**:  Read written numerals correctly in english. **Skills:** Correctly translate between written numerals and spoken English  **Attitudes and values**: Developing | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
| **WEEK2**  **02-06/10/2023** |  | LESSON 8:Reading and writing numbers up to 100 000 in figures | personal confidence in the use of numbers.  **Knowledge and understanding**:  Read written numerals correctly in english. **Skills:**  Correctly translate between written numerals and spoken English  **Attitudes and values**: Developing personal confidence in the use of numbers. | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 9:Reading and writing numbers up to 100 000 in figures | **Knowledge and understanding**:  Read written numerals correctly in english. **Skills:** Correctly translate between written numerals and spoken English  **Attitude and value**: Developing personal confidence in the use of numbers. | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 10:Reading and writing numbers up to 100 000 | **Knowledge and understandin**g:  Read written numerals correctly in english. **Skills**: Correctly translate between written numerals and spoken English  **Attitude and value**: Developing personal confidence in the use of numbers. | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 11::Reading and writing numbers up to 100 000 in figures | **Knowledge and understanding**:  Read written numerals correctly in english. **Skill**: Correctly translate between written numerals and spoken English  **Attitude and value**: Developing personal confidence in the use of numbers. | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | LESSON 12:Reading and writing numbers up to 100 000 in figures | **Knowledge and understanding**:  Read written numerals correctly in english.  **Skill**: Correctly translate between written numerals and spoken English  **Attitude and value**: Developing personal confidence in the use of numbers. | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 13:Reading and writing numbers up to 100 000 in figures | **Knowledge and understanding**:  Read written numerals correctly in english.  **Skill**: Correctly translate between written numerals and spoken English  **Attitude and value**: Developing personal confidence in the use of numbers. | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 14:Reading and writing numbers up to 100 000 in figures | **Knowledge and understandin**g:  Read written numerals correctly in english.  **Skill**: Correctly translate between written numerals and spoken English  **Attitude and value**: Developing personal confidence in the use of numbers. | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
| **WEEK3**  **09-13/10/2023** |  | LESSON 15: Place  value of whole numbers | **Knowledge and understanding**:  identify the place values of written numerals.  **SKILLS:** Use place value to compare numbers of any size.  **Atittudes and values**: Developing personal confidence in the use of numbers. | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 16: Place  value of whole numbers | **Knowledge and understanding**: identify the place values of written numerals.  **SKILLS**: Use place value to compare numbers of any size.  **Atittudes and values**: Developing personal confidence in the use of numbers. | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 17: Expanding whole numbers using place values | **Knowledge and understanding**:  identify the place values of written numerals.  **SKILLS**: Use place value to compare numbers of any size.  **Atittudes and values**: Developing personal confidence in the use of numbers. | Group work Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | L1SSON 18: Expanding whole numbers using place values | **Knowledge and understanding**:  identify the place values of written numerals.  **SKILLS**: Use place value to compare numbers of any size.  **Atittudes and values**: Developing personal confidence in the use of numbers. | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 19: writing expanded numbers in short form | **Knowledge and understanding**:  identify the place values of written numerals.  **SKILLS**: Use place value to compare numbers of any size.  **Atittudes and values**: Developing personal confidence in the use of numbers. | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 20: Comparing whole numbers. | **Knowledge and understanding**:  identify the place values of written numerals.  **SKILLS**: Use place value to compare numbers of any size.  **Atittudes and values**: Developing personal confidence in the use of numbers. | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 21: Comparing whole numbers | **Knowledge and understanding**:  identify the place values of written numerals.  **SKILLS**: Use place value to compare numbers of any size.  **Atittudes and values**: Developing personal confidence in the use of numbers. | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
| **WEEK4**  **16-20/10/2023** |  | LESSON 22:  OPERATIONS:Additio n without carrying | **Knowledge and understanding**:  Explain the process of addition of whole numbers.  **SKILLS**: Carry out additionof whole  numbers. | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 23:  OPERATIONS:Additio n without carrying | **Attitudes and values*: Appreciate* Knowledge and understanding**:  Explain the process of addition of whole numbers.  **SKILLS**: Carry out addition of whole numbers.  **Attitudes and values**: Appreciate the | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 24:  OPERATIONS: Addition with carrying | **Knowledge and understanding**:  Explain the process of addition of whole numbers.  **SKILLS**: Carry out addition of whole numbers.  **Attitudes and values**: Appreciate the importance of addition in daily life. | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 25:  OPERATIONS:Additio n with carrying | Knowledge and understanding: Explain the process of additionof whole numbers. SKILLS: Carry out addition of whole numbers.  Attitudes and values: Appreciate the importance of additionin daily life. | Group work | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 26:  OPERATIONS:Substr action without borrowing | Knowledge and understanding: Explain the process of substraction of whole numbers. SKILLS: Carry out substraction of whole numbers.  Attitudes and values: Appreciate the importance of substraction in daily life. | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 27:  OPERATIONS:substr action without borrowing | Knowledge and understanding: Explain the process of substraction of whole numbers.  SKILLS: Carry out substraction of whole numbers.  Attitudes and values: Appreciate the | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 28:  OPERATIONS:substr  action with borrowing | Knowledge and understanding: Explain the process of substraction of whole numbers.  SKILLS: Carry out substraction of whole numbers.  Attitudes and values: Appreciate the | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
| **WEEK5**  **23-27/10/2023** |  | LESSON 29:  OPERATIONS:Substr  action with borrowing | importance of substraction in daily life. Knowledge and understanding: Explain the process of substraction of whole numbers. SKILLS: Carry out substraction of whole numbers.  Attitudes and values: Appreciate the importance of substraction in daily life. | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 30:  OPERATIONS:Proble ms involving addition and substraction | Knowledge and understanding: Explain the process of solving mathematical word problems involving addition and substraction on 2 or more numbers of two digits or more.  SKILLS: Solve daily life mathematical problems involving addition and substraction. | Group work  Discussion,  Dictation ,  Matching game,observati  on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 31:  OPERATIONS:Multipl ication without carrying | Attitudes and values: Appreciate the Knowledge and understanding: Explain the  process of multiplication of two numbers or more without carrying.  SKILLS: Carry out multiplication of two or more numbers whose product does not exceed 100 000 .  Attitudes and values: Appreciate the | Group work Discussion, Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 32:  OPERATIONS:Multipl ication with carrying | importance of multiplication in daily life. Knowledge and understanding: Explain the process of multiplication of two numbers or more with carrying.  SKILLS: Carry out multiplication of two or more numbers whose product does not exceed 100 000 . | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

Attitudes and values: Appreciate the

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | LESSON 33:  OPERATIONS:Multipl  ication a whole number by  10,100,1000 and 10  000 | Knowledge and understanding: Explain the process of multiplication of a whole number by 10,100,1000,10 000. SKILLS: Carry out multiplication of whole number by 10,100,1000,10 000. Attitudes and values: Appreciate the importance of working out numbers quickly and accurately. | Group work  Discussion,  Dictation ,  Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 34:  OPERATIONS:Proble  ms involing multiplication | Knowledge and understanding: Explain the process of solving mathematical word problems involving multiplication. SKILLS: Carry out multiplication of whole numbers.  Attitudes and values: Appreciate the importance of multiplication in daily life. | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 35:  OPERATIONS:Proble ms involving multiplication | Knowledge and understanding: Explain the process of solving mathematical word problems involving multiplication. SKILLS: Carry out multiplication of whole numbers.  Attitudes and values: Appreciate the importance of multiplication in daily life. | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
| **WEEK6**  **30/10/-03/11/2023** |  | LESSON 36:  OPERATIONS:  Division without a remainder | Knowledge and understanding: Explain the process of division of two digit numbers without remainders.  SKILLS: Carry out division of whole numbers.  Attitudes and values: Appreciate the importance of division in daily life. | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 37: OPERATIONS:Divisio n with remainder | Knowledge and understanding: Explain the process of division of two digit numbers with remainders.  SKILLS: Carry out division of whole numbers.  Attitudes and values: Appreciate the | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 38:  OPERATIONS:Proble  ms involving division | Knowledge and understanding: Explain the process of solving mathematical word problems involving division on two or more numbers of two digits or more. SKILLS: Carry out division of whole  numbers. | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 39:  OPERATIONS:Proble  ms involving division | Knowledge and understanding: Explain the process of solving mathematical word problems involving division on two or more numbers of two digits or more. SKILLS: Carry out division of whole  numbers. | Group work  Discussion,  Dictation , Matching game,observati on. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 40:  ASSESSMENT | Attitudes and values: Appreciate the ASSESSMENT |  |  |  |
|  | Unit 2: positive and negative integers. | LESSON 1:  Definition of integer | Knowledge and understanding: Define an  integer. Skills: Define an integer.  Attitudes and values: Appreciate the | Group work,  Game ,Mental  activities,Puzzle s. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

importance of an integer.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | LESSON 2:.Number  line | Knowledge and understanding: Draw a  number line and label it.  Skills: Identify the parts of a number line.  Attitudes and values: Name the parts of a | Group work,  Game ,Mental  activities,Puzzle  s. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
| **WEEK7:**  **06- 10/11/2023** |  | LESSON 3: The meaning of negative  and positive numbers in contexts like temperature, buying and selling, etc. | number line.Knowledge and understanding: Locate negative and positive numbers on the number line.  Skills: Locate negative and positive numbers on the number line. Attitudes and values::Appreciate the importance of using positive and negative | Group work,  Game ,Mental  activities,Puzzle s. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 4:Inverse or opposite of an integer | Knowledge and understanding:Give the  opposite of a given integer.  Skills: Give the opposite of a given integer. Attitudes and values: Appreciate the opposite of a given integer. | Group work,  Game ,Mental  activities,Puzzle s. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 5:location of positive and negative numbers on a number line. | Knowledge and understanding:Locate  positive and negative numbers on a number line.  Skills::Locate positive and negative numbers on a number line.  Attitudes and values: Appreciate the importance of using positive and negative | Group work,  Game ,Mental  activities,Puzzle s. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 6:location of positive and negative numbers on a number line. | Knowledge and understanding:Locate  positive and negative numbers on a number line.  Skills::Locate positive and negative numbers on a number line.  Attitudes and values: Appreciate the importance of using positive and negative | Group work,  Game ,Mental  activities,Puzzle s. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 7: Comparison of negative numbers using a numberline. | Knowledge and understanding: Explain that when two numbers are placed on the number line, the number to the right is greater than to the left.  Skils: Apply knowledge of position on a number line to determine which of two numbers is greater.  Attitudes and values: Appreciate the | Group work,  Game ,Mental  activities,Puzzle  s. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 8: Ordering of negative numbers using a number line. | Knowledge and understanding: Explain that when two numbers are placed on the number line, the number to the right is greater than to the left.  Skils: Apply knowledge of position on a number line to determine which of two numbers is greater.  Attitudes and values: Appreciate the | Group work,  Game ,Mental  activities,Puzzle  s. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 9: Comparison of positive numbers using a numberline. | Knowledge and understanding: Explain that when two numbers are placed on the number line, the number to the right is greater than to the left.  Skils: Apply knowledge of position on a number line to determine which of two numbers is greater.  Attitudes and values: Appreciate the | Group work,  Game ,Mental  activities,Puzzle  s. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **WEEK8**  **13-17/11/2023** |  | Lesson 10: Ordering of positive numbers using a numberline. | Knowledge and understanding: Explain that when two numbers are placed on the number line, the number to the right is greater than to the left.  Skils: Apply knowledge of position on a number line to determine which of two numbers is greater.  Attitudes and values: Appreciate the | Group work,  Game ,Mental  activities,Puzzle  s. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 11: Distance between integers | Knowledge and understanding: Locate positive and negative numbers on the number line.  Skills:Computing distance between integers. Attitudes and values:Appreciate the importance of using positive and negative | Group work,  Game ,Mental  activities,Puzzle s. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 12: Solve problems involving integers, including computing, distance between integers. | Knowledge and understanding: Locate positive and negative numbers on the number line.  Skills: Locate positive and negative numbers on the number line. Attitude and values:Appreciate the | Group work,  Game ,Mental  activities,Puzzle s. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 13: Solve problems involving integers, including computing, distance between integers. | importance of using positive and negative Knowledge and understanding: Locate  positive and negative numbers on the number line.  Skills: Locate positive and negative numbers on the number line. Attitude and values:Appreciate the | Group work,  Game ,Mental  activities,Puzzle s. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 14:  ASSESSMENT | importance of using positive and negative Assessment |  |  |  |
|  | Unit 3:  Classifying numbers by their properties | Lesson 1:  Odd and even numbers. | Knowledge and understanding:Explain the meaning of odd and even numbers. Skills: Classify numbers as odd and even numbers.  Attitudes and values:Appreciate the importance of using odd and even numbers. | Games, role plays,group work. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 2:  square and square roots numbers. | Knowledge and understanding:Explain the meaning of square and square root numbers.  Skills: Classify numbers as square and  square roots numbers .  Attitudes and values:Appreciate the importance of using square and square roots. | Games, role plays,group work. | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
| **WEEK 9:**  **20-**  **24/11/2023** |  | Lesson 3:Prime numbers | Knowledge and understanding: Explain the  meaning of prime numbers.  Skills: Classify numbers as prime numbers . Attitude and values:Appreciate the importance of using prime numbers . |  | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 4: Multiples of numbers | Knowledge and understanding: Explain the meaning of multiples of numbers.  Skills: Classify multiples of a given number. Attitude and values:Appreciate the multiples of the given numbers. |  | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Lesson 5: Factors of numbers. | Knowledge and understanding: Explain the  meaning of factors of numbers. Skills: Classify factors of a given number. Attitudes and values:Appreciate the factors of the given number. | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 6:  squares and exact square roots. | Knowledge and understanding: List numbers in each family and explain the properties of different families of numbers. Skills: Calculate the square of a number and find the square root of a square number less than or equal 100.  Attitudes and values:Being cooperative and displaying a team work spirit. | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 7:  Problems involving square root. | Knowledge and understanding : Solve  problems involving squre roots. Skills: Calculate the square root of a square number.  Attitudes and values: Demonstrate creativity in problem solving. | Group work Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 8: Calculating the LCM. | Knowledge and understanding : State the method / steps for calculating the LCM.  Skills: Calculate the LCM of two numbers.  Attitudes and values: Being attentive. | Group work Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 9: Calculating the LCM | Knowledge and understanding : State the method / steps for calculating the LCM.  Skills: Calculate the LCM of two numbers.  Attitudes and values: Being attentive. | Group work Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
| **WEEK 10:**  **27/11/-01/12/2023** |  | Lesson:  ASSESSMENT | Assessment |  |  |  |
|  | UNIT 4: Fractions of same denominators. | Lesson 1:  The meaning of fractions. | Knowledge and understanding : Explain the  meaning of fraction. Skills: Define fraction.  Attitudes and values: Appreciate the denominator and numerator of a fraction. | Group work Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 2:  Read and write fractions | Knowledge and understanding : Read and  write fractions.  Skills: Read and write fractions.  Attitudes and values: Reading and writing fractions. | Group work Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 3:  Comparing fractions with the same denominators . | Knowledge and understanding :Explain and show how to compare fractions with the same denominators.  Skills: Compare two fractions with the same denominators.  Attitudes and values:Compare two fractions with the same denominators. | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Lesson 4:  Reading and writing mixed fractions. | Knowledge and understanding :Read and  write mixed fractions. Skills: Read and write mixed fractions. Attitudes and values :Read and write mixed fractions. | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 5:  Compare mixed fractions. | Knowledge and understanding :Compare  mixed fractions.  Skills:Compare given mixed fractions. Attitudes and values :Compare given mixed fractions. | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 6:  Equivalent mixed fractions. | Knowledge and understanding : Read and write fractions.  Skills:Compare two fractions with the same  denomonators.  Attitudes and values : Appreciate the importance of accuracy in carrying out operations on fractions. | Group work Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
| **WEEK 11**  **04-08/12/2023** | **REVISION** | | | | | |
| **WEEK 12 &13**  **11-22/12/2023** | **EXAMS & SCHOOL REPPORT** | | | | | |
|  |  | | | | | |
| **TERM 2** | | | | | | |
| **Week 1**  **08-12/01/2024** |  | Lesson 7: Addition of fractions with the same denominators. | Knowledge and understanding : Explain and show how adding fractions with the same denominators.  Skills: Add fractions that have the same  denominators.  Attitudes and values : Develop personal confidence in carrying out operations on fractions. | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 8: Addition of fractions with the same denominators. | Knowledge and understanding : Explain and show how adding fractions with the same denominators.  Skills: Add fractions that have the same  denominators. | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 9:  Word problems  involving addition of fractions. | Attitudes and values : Develop personal Knowledge and understanding : Explain the process of solving problems involving addition of fractions..  Skills:Apply the knowledge of fractions to solve mathematical problems that involve operation of fractions.  Attitudes and values : Develop personal | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 10: Substraction of fractions with the same denominators. | confidence in carrying out operations on Knowledge and understanding : Explain and  show how substracting fractions with the same denominators.  Skills: Substract fractions that have the  same denominators.  Attitudes and values : Develop personal confidence in carrying out operations on fractions. | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Lesson 11: Substraction of fractions with the same denominators. | owledge and understanding : Explain and show how substracting fractions with the same denominators.  Skills: Substract fractions that have the  same denominators.  Attitudes and values : Develop personal | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 12: Problems involving Addition of fractions. | confidence in carrying out operations on ***Knowledge and understanding*** : Explain the  process of solving problems involving addition of fractions.  ***Skills*** : Apply the knowledge of fractions to solve mathematical problems that involve operation of fractions.  ***Attitudes and values: Appreciate the*** | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 13: Problems involving addition of fractions. | ***importance of accuracy in carrying out Knowledge and understanding*** : Explain the  process of solving problebs involving addition of fractions.  ***Skills*** :Apply the knowledge of fractions to solve mathematical problems that involve operation of fractions.  ***Attitudes and values:*** Appreciate the | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 14: Problems  involving substraction of fractions. | importance of accuracy in carrying out Knowledge and understanding: Explain the  process of solving problebs involving substraction of fractions.  Skills:Apply the knowledge of fractions to solve mathematical problems that involve operation of fractions.  Attitudes and values: Appreciate the importance of accuracy in carrying out | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
| **Week 2**  **15-19/01/2024** |  | Lesson 15:  Problems involving substraction of fractions. | operations on fractions.Knowledge and understanding: Explain the process of solving problebs involving substraction of fractions.  Skills:Apply the knowledge of fractions to solve mathematical problems that involve operation of fractions.  Attitudes and values: Appreciate the | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 16: Multiplication of fractions by a whole number. | importance of accuracy in carrying out ***Knowledge and understanding*** : Explain  how to multiply fractions by whole numbers.  ***Skills*** : Multiply fractions by a whole number.  ***Attitudes and values:*** Appreciate the | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 17: Multiplication of fractions by whole numbers. | importance of accuracy in carrying out Knowledge and understanding: Explain how to multiply fractions by whole numbers. Skills: Multiply fractions by a whole number.  Attitudes and values: Appreciate the importance of accuracy in carrying out | Group work Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 18:  Multiplication of fraction by fraction. | Knowledge and understanding: Explain how  to multiply a fraction by a fraction.  Skills: Multiply a fraction by a fraction. Attitudes and values: Appreciate the importance of accuracy in carrying out multiplications of a fraction by a fraction. | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | LESSON 19:  Multiplication of fraction by fraction. | Knowledge and understanding: Explain how  to multiply a fraction by a fraction.  Skills: Multiply a fraction by a fraction. Attitudes and values: Appreciate the importance of accuracy in carrying out multiplications of a fraction by a fraction. | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 20: Division of fractions by a whole number. | ***Knowledge and understanding*** : Explain how to divide fractions by whole numbers. ***Skills*** : Divide a fraction by a whole number. ***Attitude and value:*** Appreciate the importance of accuracy when working out division of fraction by a whole number. | Group work Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 21: Division of fractions by a whole number. | Knowledge and understanding: Explain how to divide fractions by whole numbers. Skills: Divide a fraction by a whole number. Attitude and value: Appreciate the importance of accuracy when working out division of fraction by a whole number. | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 22: Division of fractions by a whole number. | Knowledge and understanding: Explain how to divide fractions by whole numbers. Skills: Divide a fraction by a whole number. Attitude and value: Appreciate the importance of accuracy when working out division of fraction by a whole number. | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
| **Week 3**  **22-26/01/2024** |  | LESSON 23:  Problems involving multiplication and division of fractions. | ***Knowledge and understanding: Explain the*** process of solving problems involving multiplication and division of fractions. ***Skills*** : Solve problems involving multiplication and division of fractions. ***Attitude and value:*** Appreciate the importance of accuracy when working out multiplication and division of fractions. | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 24:  Problems involving multiplication and division of fractions. | Knowledge and understanding: Explain the process of solving problems involving multiplication and division of fractions. Skills: Solve problems involving multiplication and division of fractions. Attitude and value: Appreciate the importance of accuracy when working out multiplication and division of fractions. | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 25:  Problems involving multiplication and division of fractions. | Knowledge and understanding: Explain the process of solving problems involving multiplication and division of fractions. Skills: Solve problems involving multiplication and division of fractions. Attitude and value: Appreciate the importance of accuracy when working out multiplication and division of fractions. | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 26: | Assessment |  |  |  |
|  | UNIT 5: Decimal fractions/numb ers | Assessment Lesson 1: Explain the concept of decimal fractions through examples and through  "zooming in " on the number line. | Knowledge and understanding: :Explain the concept of decimal numbers using place values up to 2 decimal places. Skills: Apply decimal concept in solving daily life.  Attitudes and values: Develop personal confidence in the use of decimal numbers. | Group work,Observati on | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Lesson 2: Reading and writing decimal fractions in words. | ***Knowledge and understanding*** : Correctly read and write decimal fractions in words.  ***Skills*** : Read and write decimal fractions. ***Attitudes and values:*** Develop personal confidence in the use of decimal numbers. | Group work,Observati on | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 3: Reading and writing decimal numbers in figures | Knowledge and understanding: Correctly read and write decimal fractions in figures. Skills: Read and write decimal fractions. Attitudes and values: Develop personal confidence in the use of decimal numbers. | Group work,Observati  on | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 4: Place  value of decimals:tenths | ***Knowledge and understanding*** : Identify  place values in written decimals. ***Skills*** : Apply decimal concept in solving daily life.  ***Attitudes and values:*** Develop personal | Group work,Observati  on | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
| **Week 4**  **29/01-02/02/2024** |  | LESSON 5: Place value of decimals  :Hundredths | confidence in the use of decimal numbers.***Knowledge and understanding*** : Identify place values in written decimals. ***Skills*** : Apply decimal concept in solving daily life.  ***Attitudes and values:*** Develop personal | Group work,Observati  on | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 6:Comparing decimal numbers:tenths | ***Knowledge and understanding*** : Identify  place values in written decimals. ***Skills*** : Compare 2 or more decimal numbers using >,<or =.  ***Attitude and value:*** Appreciate the importance of decimal fractions in | Group work,Observati on | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 7:  Comparing decimal  numbers:hundredth s | Knowledge and understanding: Identify  place values in written decimals. Skills: Compare 2 or more decimal numbers  using >,<or =.  Attitude and value: Appreciate the importance of decimal fractions in | Group work,Observati on | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 8: Addition of decimas:tenths. | comparing and sharing.***Knowledge and understanding*** : Identify place values in written decimals. ***Skills*** : Carry out addition of decimal numbers up to 2 decimal places. ***Attitudes and values:*** Develop personal confidence in the use of decimal numbers. | Group work,Observati on | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 9: Addition  of  decimals:Hundredth  s | Knowledge and understanding: Identify  place values in written decimals. Skills: Carry out addition of decimal numbers up to 2 decimal places. Attitudes and values: Develop personal | Group work,Observati on | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 10:  substraction of decimals:tenths . | confidence in the use of decimal numbers. Knowledge and understanding: Identify  place values in written decimals. Skills: Carry out substraction of decimal numbers up to 2 decimal places. Attitudes and values: Develop personal confidence in the use of decimal numbers. | Group work,Observati on | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 11:  substraction of  decimal:hundredths  . | Knowledge and understanding: Identify  place values in written decimals. Skills: Carry out substraction of decimal numbers up to 2 decimal places. Attitudes and values: Develop personal confidence in the use of decimal numbers. | Group work,Observati on | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 12: Problems involving addition and substraction of decimals. | ***Knowledge and understanding*** : Identify  the place values in written decimals. ***Skills*** : Apply decimal concepts in solving  daily life math problems.  ***Attitudes and values:*** Develop personal confidence in the use of decimal numbers. | Group work,Observati  on | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 13: Problems involving addition and substraction of decimals. | Knowledge and understanding: Identify the  place values in written decimals. Skills: Apply decimal concepts in solving  daily life math problems.  Attitudes and values: Develop personal confidence in the use of decimal numbers. | Group work,Observati  on | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
| **Week 5**  **05-09/02/2024** |  | Lesson 14: Problems involving addition and substraction of decimals. | Knowledge and understanding: Identify the  place values in written decimals. Skills: Apply decimal concepts in solving  daily life math problems.  Attitudes and values: Develop personal confidence in the use of decimal numbers. | Group work,Observati  on | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 15:  Assessment. | Assessment |  |  |  |
|  | UNIT 6: Length measurements. | LESSON 1: Estimate different small distances. | ***Knowledge and understanding*** : Build on knowledge and understanding of measurement of length. ***Skills*** : Appropriately estimate length and  provide a justification.  ***Attitudes and values:*** Appreciate the | Group work  ,Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 2:  Estimate different small distances. | Knowledge and understanding: Build on knowledge and understanding of measurement of length. Skills: Appropriately estimate length and  provide a justification.  Attitudes and values: Appreciate the importance of metric measures in daily life. | Group work  ,Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 3: Measure the length and perimeter of various objects in different units. | ***Knowledge and understanding*** : State different units of length measurements. ***Skills*** : Select and use appropriate instruments/tools/materials to measure lengths, using and interpreting scales correctly.  ***Attitudes and values:*** Recognize the importance of using measuring tools | Group work ,Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 4: Measure the length and perimeter of various objects in different units. | correctly.Knowledge and understanding: State different units of length measurements. Skills: Select and use appropriate instruments/tools/materials to measure lengths, using and interpreting scales correctly.  Attitudes and values: Recognize the importance of using measuring tools | Group work ,Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 5: Reading and writing measurements of length. | correctly.3***Knowledge and understanding*** : State different units of length measurements. ***Skills*** : Read and write units of length  measurements.  ***Attitudes and values:*** Appreciate the | Group work ,Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

importance of metric measures in daily life.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Lesson 6:  Conversion of units of length measurements . | ***Knowledge and understanding*** : Convert  fractions to decimals.  ***Skills*** : Convert units of length  measurements.  ***Attitudes and values:*** Appreciate the | Group work ,Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 7:Conversion  of length measurements . | importance of metric measures in daily life. Knowledge and understanding: Convert  fractions to decimals. Skills: Convert units of length  measurements.  Attitudes and values: Appreciate the importance of metric measures in daily life. | Group work ,Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
| **Week 6**  **12-16/02/2024** |  | LESSON 8: Addition  of length measurements of whole and decimal numbers up to 2 decimal places in | ***Knowledge and understanding*** : Add length  measurements.  ***Skills*** : Apply the knowledge of additonof  length measurements.  ***Attitudes and values:*** Appreciate the importance of metric measures in daily life. | Group work  ,Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | meaningful  LESSON 9: Addition  of length measurements of whole and decimal numbers up to 2 decimal places in | Knowledge and understanding: Add length  measurements.  Skills: Apply the knowledge of additon of  length measurements.  Attitudes and values: Appreciate the importance of metric measures in daily life. | Group work  ,Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | meaningful LESSON 10: Substraction of length measurements of whole and decimal numbers up to2 | Knowledge and understanding: Add length  measurements.  Skills: Apply the knowledge of substraction  of length measurements.  Attitudes and values: Appreciate the importance of metric measures in daily life. | Group work  ,Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 11: Substraction of length measurements of whole and decimal numbers up to2 | Knowledge and understanding: Add length  measurements.  Skills: Apply the knowledge of substraction  of length measurements.  Attitudes and values: Appreciate the importance of metric measures in daily life. | Group work  ,Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 12:  Multiplication of length  measurements by a whole number. | Knowledge and understanding: Multiply length measurements by a whole number. Skills: Apply the knowledge of multiplication  of length measurements by a whole number.  Attitudes and values: Appreciate the | Group work  ,Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 13: Multiplication of length  measurements by a whole number. | Knowledge and understanding: Multiply length measurements by a whole number. Skills: Apply the knowledge of multiplication  of length measurements by a whole number.  Attitudes and values: Appreciate the | Group work  ,Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 14: Perimeter of different shapes. | ***Knowledge and understanding*** : Explain the  perimeter of shape as the distance around it.  ***Skills*** : Apply the knowledge of alculating the perimeter of a given shape. ***Attitude and value:*** Appreciate the | Group work  ,Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Week 7**  **19-23/02/2024** |  | LESSON 15: Perimeter of different shapes. | Knowledge and understanding: Explain the  perimeter of shape as the distance around it.  Skills: Apply the knowledge of alculating the  perimeter of a given shape. Attitude and value: Appreciate the | Group work  ,Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 16: | importance of metric measures in daily life. Assessment |  |  |  |
|  | UNIT 7:Capacity measurements. | ASSESSMENT LESSON 1: Estimation of the capacity of different objects. | ***Knowledge and understanding*** : Distinguish the capacity of different liquid containers through observation.  ***Skill*** : Estimate the capacity of a liquid container through observation. ***Attitude and value:*** Show an ability to properly use a range of materials to measure different liquids in daily life. | Group  work,Individual, Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 2:  Measuring different capacities in liters. | ***Knowledge and understanding*** : State the different unit of capacity measurements. ***Skills*** : Select and use an appropriate tool/material to measure the capacity of different liquid containers.  ***Attitudes and values: Be honesty and*** | Group  work,Individual, Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 3 Reading and writing measurements of capacity from hl to ml. | ***trustworthy when measuring different Knowledge and understanding*** : State the  different units of the capacity measurements.  ***Skills*** : Correctly read and write units of  capacity measurements.  ***Attitudes and values:*** Appreciate the | Group  work,Individual, Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 4: Conversion of capacity measurements . | reading and writing of capacity ***Knowledge and understanding*** : Explain the  relationship between units of capacity measurements.  ***Skills*** : Accurately convert different capacity  measurements.  ***Attitudes and value: Show respect to one another when working in groups.*** | Group  work,Individual, Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 5:Addition and subsraction of capacity measurements of whole and decimal numbers up to 2 decimals places in | ***Knowledge and understanding*** : Explain the process of addition and substraction of capacity measurements of whole and decimal numbers up to 2 decimals places in meaningful contexts.  ***Skills*** : Apply the knowledge of addition and substraction of capacity measurements of | Group  work,Individual, Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 6: problems involving capacity measurements | ***Knowledge and understanding*** : Show the process of solving mathematical rule problems involving capacity measurements. ***Skills*** : Apply the knowledge of solving mathematical problems involving capacity measurements.  ***Attitudes and values: Show respect to one*** | Group  work,Individual,  Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 7: | Assessment |  |  |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Week 8**  **26/02/-01/03/2024** | UNIT 8: Mass measurements. | LESSON 1:  Estimating mass of different things. | ***Knowledge and understanding*** :Estimate the mass of different objects through observation.  ***Skills:*** Select and use the appropriate tool/material to measure the mass of different objects.  ***Attitudes and values:*** Be honesty and trustworthy when measuring mass. | Group  work,Individual, Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 2: Measuring different objects | ***Knowledge and understanding*** : State the units of the mass and relate them to objects they best measure. ***Skills:* Show an ability to properly use different scales to measure different masses in daily life situations.**  ***Attitudes and values:*** Be honesty and trustworthy when measuring mass. | Group  work,Individual, Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 3: Readind and writing measurements of mass from tone(t) to milligram(mg). | ***Knowledge and understanding*** : Read and  write mass measurements.  ***Skill:*** Read and write mass measurements  accurately***.***  ***Attitudes and***  ***values:*** Appreciate the importance of mass | Group work,Individual,  Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 4: Addition and substraction of mass measurements of whole and decimal numbers up to 2 decimal places in meaningful contexts. | ***Knowledge and understanding*** : Explain the process of addition and substraction of mass measurements of whole and decimal  numbers up to 2 decimal places in meaningful contexts.  ***Skills:*** A*pply the knowledge of addition and substraction of mass measurements.* ***Attitudes and values:*** Show the spirit of | Group  work,Individual, Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 5:  Conversion of mass measurements . | ***Knowledge and understanding*** : Recognise the relationship between the units of mass measurements.  ***Skills:*** Accurately convert different  measurements of mass.  ***Attitudes and values:*** Show confidence when working out mass measurements. | Group  work,Individual, Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 6: Problems of mass measurements. | ***Knowledge and understanding*** : Explain the process of solving mathematical problems involving mass measurements. ***Skills:*** Apply the knowledge of solving mathematical problems involving mass measurements***.***  ***Attitudes and values:*** Show confidence | Group  work,Individual, Observation | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 7:  ASSESSMENT | when working out mass measurements.***Assessment*** |  |  |  |
| **Week 9**  **04-08/03/2024** | UNIT 9: Area and land measurements. | Lesson 1: Concept of unit of area/land measurements. | ***Knowledge and understanding*** : Explain the concept of square units and land units. ***Skills:*** Practically differentiate the measurements of area from the measurement of length.  ***Attitudes and values:*** Appreciate the importance of measurement of area and land in daily life. | Group work | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Lesson 2: Reading and writing measurements of area/land. | ***Knowledge and understanding*** : Correctly  read and write units of area/land  measurements  ***Skills::*** Correctly read and write units of area/land measurements  ***Attitudes and values:*** Appreciate the importance of measurements of area and land in daily life. | Group work | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 3: Reading and writing measurements of area/land. | Knowledge and understanding: Correctly  read and write units of area/land  measurements  Skills:: Correctly read and write units of area/land measurements  Attitudes and values: Appreciate the | Group work | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 4: Relationship between area and land measurements. | importance of measurements of area and ***Knowledge and understanding*** : Establish  the ralationship between the unit of  area/land measurents  ***SkillS:*** appreciate the relationshipbetween  area and land measurements ***Attitude and value:*** Appreciate the importance of area and land measurements in daily life situations. | Group work | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 5:  Understand area as the space enclosed by a boundary. | ***Knowledge and understanding*** : Establish the relationship between the unit of land  and area measurements ***Skills: calculate the area as a space***  ***enclosed by boundary without using the***  ***formula***  ***Attitudes and values: show how to properly use different area and land measurents in daily life situations*** | Group work | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 6: conversion of area and land measurements. | ***Knowledge and understanding:*** Explain the  process of convertng area /land measurements***.***  ***Skills:*** *convert area and land measurements* ***Attitudes and values:*** show howto properly use different area and land measurements | Group work | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson7: Area of rectangle including a square. | Knowledge and understanding :calculate the area of a rectangle including a square Skills:find the area of a rectangle including a square .  Attutudes and values: Appleciate the importance of measurements of area and land in daily life. |  | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
| **Week 10**  **11-15/03/2024** |  | Lesson 8: Area of rectangle including a square. | Knowledge and understanding :calculate the area of a rectangle including a square Skills:find the area of a rectangle including a square .  Attutudes and values: Appleciate the importance of measurements of area and land in daily life. | Group work | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | Lesson 9: Area of a rectangular piece of land(2D shapes). | ***Knowledge and understanding*** : calculate the area of a rectangular piece of land (2D  shapes)  ***SkillS: Find the area of a rectangular piece***  ***of land (2D shapes)***  ***Attitudes and values: Appreciate the***  ***importance of measurements of area and land in daily life*** | Group work | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 10: Addition and substraction of area/land measurements of whole and decimal numbers up to 2 decimal places in | ***Knowledge and understanding*** : Explain the process of adding and subtracting of area /land measurements of whole and decimal numbers up to 2 decimal places in  meanigful contexts  ***SkillS:*** add and subtract area and land  measurements . | Group work | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 11: Addition and substraction of area/land measurements of whole and decimal numbers up to 2 decimal places in meaningful contexts. | ***Knowledge and understanding*** : Explain the process of adding and subtracting of area /land measurements of whole and decimal numbers up to 2 decimal places in  meanigful contexts  ***SkillS:*** add and subtract area and land  measurements .  ***Attitudes and values:*** appreciate the importance of measurements of area and land in daily life . | Group work | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  |  | | | | |
| **Week 11 &12**  **11 &12 :**  **18-29/03/2024** | EXAMS |  | | | | |
|  | | TERM 3 | | | | |
|  |  |  |  |  |  |  |
| **Week 1**  **15-19/04/2024** | UNIT 10: Time | Lesson 1:  Reading and tellig the time accurately using a calendar, digital and clock face. | ***Knowledge and understanding*** : Recognise different units of time . ***Skills:***  read and tell the time accurately . ***Attitudes and values: Appreciate the value of time management in daily situation .*** | Group work | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 2: Reading and tellig the time accurately using a calendar, digital and clock face. | ***Knowledge and understanding*** : Recognise different units of time . ***Skills:***  read and tell the time accurately . ***Attitudes and values: Appreciate the value of time management in daily situation .*** | Group work | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 3: write the time using Ante Merdian to mean before noon(AM) and post Merdiem  to mean after noon(PM) | ***Knowledge and understanding*** : Explain the meaning of am and pm.  ***Skills:correctly write units of time***  ***Attitudes and values: appreciate the value of time management in daily situation .*** | Group work | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 4:  Conversion of time: minutes to hours and vice versa | ***Knowledge and understanding*** : Explain the  process of conversion of time . ***Skills:Apply acquired knowledge to convert between unit of time .***  ***Attitudes and values: Appreciate the value of time management in daily situations.*** | Group work | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 5:  Conversion of time: seconds into minutes,minutes into hours and vice versa. | ***Knowledge and understanding*** : Explain the  process of conversion of time . ***Skills:*** Apply acquired knowledge to convert between unit of time .  ***Attitudes and values:*** Appreciate the value of time management in daily situations. | Group work | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 6: Solve problems involving time : minutes and hours,dates and hours. | ***Knowledge and understanding*** : Explain the process of solving mathematical  problems involving time  ***Skills: Apply acquired knowledge to***  ***convert between units of time . Attitudes and values: Appreciate the value of time management in daily situations.*** | Group work | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | Lesson 7:  ASSESSMENT | ASSESSMENT |  |  |  |
|  | UNITY  11:Money and  its financial application | LESSON 1:Rwandan  currency denominations and changing them:coins and notes | ***Knowledge and understanding*** : Recognise and identify the various denominations of  Rwandan currencies.  ***Skills: identify Rwandan currency denominations and changing them. Attitudes and values*** :Appreciate the importance of maney in daily life situations. | Group work  ,Role play | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
| **Week 2**  **22-26/04/2024** |  | LESSON 2: Simple  budgeting:source of money | ***Knowledge and understanding*** : Explain the process of simple budgeting basing on  priorities  ***Skills:carry out calculations in simple***  ***business transactions..***  ***Attitudes and values: show concern of using maney honestly.*** | Group work  ,Role play | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 3: simple budgeting:Use of  money | ***Knowledge and understanding*** : Explain  the source of maney .  ***Skills:*** Identify the source of maney . ***Attitudes and values:*** show concern of using maney honestly. | Group work  ,Role play | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 4: Simple budgeting:Planning according to needs  and wants | ***Knowledge and understanding*** : State  different ways of using money to meet the  needs of families  ***Skills:*** classify needs and wants  ***Attitudes and values:*** show concern of | Group work  ,Role play | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 5: Problems involvings buying and selling :cost price,selling price | Knowledge and understanding:Explain the process of solving problems involving  buying and selling  **Skills**:solve problems involving buying and  selling | Group work  ,Role play | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

**Attitudes and values**:show concern of using

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | LESSON 6:Problems involving buying  and  selling:profit/loss | Knowledge and understanding:Explain the process of solving problems involving  buying and selling  Skills:solve problems involving buying and  selling  Attitudes and values:show concern of using maney honestly. | Group work  ,Role play | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON  2:ASSESSMENT | Assessment |  |  |  |
|  | UNIT 12:Number patterns | LESSON 1: Definition of a number pattern | ***Knowledge and understanding*** :Explain the  meaning of number pattern ***Skills:Define a number pattern***  ***Attitude and value:*** Appreciate importance of number patterns | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 2: Arrange whole numbers in increasing order | ***Knowledge and understanding*** : Explain how to order all numbers according to their  size in increasing order  ***Skills:Arrange whole numbers in increasing***  ***order***  ***Attitude and value:*** Appreciate the importance of orderliness in daily life | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
| **Week 3**  **29/04/-03/05/2024** |  | LESSON 3:Arrange whole numbers in decreasing order | Knowledge and understanding: Explain how to order all numbers according to their size  in decreasing order  Skills:Arrange whole numbers in decreasing  order  Attitude and value: Appreciate the importance of orderliness in daily life | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 4: Type of progressions :arthmetic progression involving addition | ***Knowledge and understanding*** :Explain the meaning of arithmetic or geometric  progressions  ***SkillS:***  Differenciate between arthmetic progression and geometric progression ***Attitudes and values: Apreciate the spirit*** | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 5: Type of progression:arthmet ic progression  involving  substraction | ***of hard work and self confidenceKnowledge and understanding*** :Explain the  meaning of arithmetic or geometric  progressions  ***SkillS:***  Differenciate between arthmetic progression and geometric progression ***Attitudes and values: Apreciate the spirit*** | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 6:Type of progression:arthmet ic progression involving substraction | ***of hard work and self confidenceKnowledge and understanding*** :Explain the  meaning of arithmetic or geometric  progressions  ***SkillS:***  Differenciate between arthmetic progression and geometric progression ***Attitudes and values: Apreciate the spirit***  ***of hard work and self confidence*** | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | LESSON 7: Type of progressions:geome tric progression involving  multiplication | ***Knowledge and understanding*** :Explain the meaning of arithmetic or geometric  progressions  ***SkillS:***  Differenciate between arthmetic progression and geometric progression ***Attitudes and values: Apreciate the spirit***  ***of hard work and self confidence*** | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON8 :Type of progressions:geome tric progression involving multiplication | ***Knowledge and understanding*** :Explain the meaning of arithmetic or geometric  progressions  ***SkillS:***  Differenciate between arthmetic progression and geometric progression ***Attitudes and values: Apreciate the spirit***  ***of hard work and self confidence*** | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
| **Week 4**  **06-10/05/2024** |  | LESSON 9:Type of progressions:geome tric progression involving division | ***Knowledge and understanding*** :Explain the meaning of arithmetic or geometric  progressions  ***SkillS:***  Differenciate between arthmetic progression and geometric progression ***Attitudes and values: Apreciate the spirit***  ***of hard work and self confidence*** | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 10:Type of progressions:geome tric progression involving division | ***Knowledge and understanding*** :Explain the meaning of arithmetic or geometric  progressions  ***SkillS:***  Differenciate between arthmetic progression and geometric progression ***Attitudes and values: Apreciate the spirit***  ***of hard work and self confidence*** | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 11:  ASSESSMENT | ***Assessment*** |  |  |  |
|  | UNIT 13:Filling  in missing numbers | LESSON 1:Meaning  of arithmagon | ***Knowledge and understanding*** : Explain the  meaning of arithmagon ***Skills:*** Difine an arithmagorn  ***Attitude and value:*** *Appreciatehow to fill an arithmagon* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 2:Solving simple missing number involving addition | ***Knowledge and understanding*** : Know how to solve simple missing number problems  involving addition and substraction ***Skills:*** Use relationships between numbers to solve missing number problems ***Attitudes and values:*** *Appreciate the imprtance of inverse operations when solving missing number problems and checking answers* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | LESSON 3: Solving simple missing number involving  addition | ***Knowledge and understanding*** : Know how to solve simple missing number problems  involving addition and substraction ***Skills:*** Use relationships between numbers to solve missing number problems ***Attitudes and values:*** *Appreciate the imprtance of inverse operations when solving missing number problems and checking answers* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 4 :Solving simple missing number involving substraction | ***Knowledge and understanding*** : Know how to solve simple missing number problems  involving addition and substraction ***Skills:*** Use relationships between numbers to solve missing number problems ***Attitudes and values:*** *Appreciate the imprtance of inverse operations when solving missing number problems and checking answers* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 5 :Solving simple missing number involving substraction | ***Knowledge and understanding*** : Know how to solve simple missing number problems  involving addition and substraction ***Skills:*** Use relationships between numbers to solve missing number problems ***Attitudes and values:*** *Appreciate the imprtance of inverse operations when solving missing number problems and checking answers* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
| **Week 5**  **13-17/05/2024** |  | LESSON 6:Missing number in an arithmagon | ***Knowledge and understanding*** : Know how to solve simple missing numbers in an  arirhmagon  ***Skills:*** *Create missing number in an*  *arirhmagon*  ***Attitude and value:*** *Appreciate the imprtance of inverse operations when solving missing number problems and checking answers* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 7:Missing number in an arithmagon | ***Knowledge and understanding*** : Know how to solve simple missing numbers in an  arirhmagon  ***Skills:*** *Create missing number in an*  *arirhmagon*  ***Attitudes and values:*** *Appreciate the imprtance of inverse operations when solving missing number problems and checking answers* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | LESSON 8:Missing number in an arithmagon | ***Knowledge and understanding*** : Know how to solve simple missing numbers in an  arirhmagon  ***Skills:*** *Create missing number in an*  *arirhmagon*  ***Attitudes and values:*** *Appreciate the imprtance of inverse operations when solving missing number problems and checking answers* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 9: Solving missing number problems involving  addition | ***Knowledge and understanding*** : Know how to solve simple missing numbers  problems involving addition and  substraction  ***Skills:***  Use relationships between numbers to solve missing number problems ***Attitude and value:*** Appreciate the impotance of solving missing number probblems and checking answers | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 10:Solving missing number problems involving addition | ***Knowledge and understanding*** : Know how to solve simple missing numbers  problems involving addition and  substraction  ***Skills:***  Use relationships between numbers to solve missing number problems ***Attitude and value:*** Appreciate the impotance of solving missing number probblems and checking answers | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 11:Solving missing number problems involving  substraction | ***Knowledge and understanding*** : Know how to solve simple missing numbers  problems involving addition and  substraction  ***Skills:***  Use relationships between numbers to solve missing number problems ***Attitude and value:*** Appreciate the impotance of solving missing number | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
| **Week 6**  **20-24/05/2024** |  | LESSON 12:  ASSESMENT | Assessment |  |  |  |
|  | UNIT 14:Types of lines and angles | LESSON 1: Types of  lines | ***Knowledge and understanding*** : State  different types of lines  ***Skill:*** *Draw lines using appropriate*  *geometrical instruments.*  ***Attitude and value:*** Appreciate the importance of lines in daily activities. | Observation,Gr  oup work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 2: Measuring lines segments using a  ruler | ***Knowledge and understanding*** : Identify and choose appropriate geometrical  instruments  ***Skills:*** *Measure line segments using a rule.r* ***Attitudes and values:*** *Be confident and accurate when measuring.* | Observation,Gr oup work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | LESSON 3: types of angles:Acute and  obtuse angles | ***Knowledge and understanding*** :Recognise  types of angles.  ***Skills:*** *Differentiate types of angles based*  *on their properties* .  ***Attitudes and values:*** Appreciate the importance of angles in daily activities. | Observation,Gr oup work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 4: Types of angles :Right and  straight angles | ***Knowledge and understanding*** :Recognise  types of angles.  ***Skills:*** *Differentiate types of angles based*  *on their properties* .  ***Attitudes and values:*** Appreciate the importance of angles in daily activities. | Observation,Gr oup work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 5: types of angles:Complement ary,supplementary  and reflex angles | ***Knowledge and understanding*** :Recognise  types of angles.  ***Skills:*** *Differentiate types of angles based*  *on their properties* .  ***Attitudes and values:*** Appreciate the importance of angles in daily activities. | Observation,Gr oup work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 6:  Measuring angles using a protractor | ***Knowledge and understanding*** : Identify and choose appropriate geometrical instruments.  ***Skills:*** *Measure with precision different*  *angles using a protractor* .  ***Attitudes and values:*** *Be confident and* | Observation,Gr oup work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 7: |  |  |  |  |
|  | UNIT15:2D Shapes and properties | ASSESMENT LESSON 1:Naming  triangles on the basis of edge lenghts:Equilateral,is osceles,scalene | ***Knowledge and understanding*** : Name  triangles and special quadrilaterals. ***Skills:*** *Identify triangles and special quadrilaterals in every day situations.* ***Attitudes and values:*** *Appreciate the use of properties to distinguish shapes.* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 2: Naming triangles on basis of edge lenghts  :Equilateral,isosceles  ,scalene | ***Knowledge and understanding*** : Name  triangles and special quadrilaterals. ***Skills:*** *Identify triangles and special quadrilaterals in every day situations.* ***Attitudes and values:*** *Appreciate the use of properties to distinguish shapes.* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
| **Week 7:**  **27-31/05/2024** |  | LESSON 3: Naming trianglesusing their greatest angles | ***Knowledge and understanding*** : Name  triangles and special quadrilaterals. ***Skills:*** *Identify triangles and special quadrilaterals in every day situations.* ***Attitudes and values:*** *Appreciate the use of properties to distinguish shapes.* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | LESSON 4: Naming triangles using their greatest angles | ***Knowledge and understanding*** : Name  triangles and special quadrilaterals. ***Skills:*** *Identify triangles and special quadrilaterals in every day situations.* ***Attitudes and values:*** *Appreciate the use of properties to distinguish shapes.* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 5: Definition of quadrilaterals and their types | ***Knowledge and understanding*** : Name  triangles and special quadrilaterals. ***Skills:*** *Identify triangles and special quadrilaterals in every day situations.* ***Attitudes and values:*** *Appreciate the use of properties to distinguish shapes.* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 6: Use of properities sides(equal,parallel), angles,diagonals(Equ al,bisecte,perpendic  ular),lines of symetry,order of rotational symetry | ***Knowledge and understanding*** : State geometric properties that can be used to distinguish shapes.  ***Skills:*** *Determine the symmetrical*  *properties of 2D shapes.*  ***Attitudes and values:*** *Appreciate the use of properties to distinguish shapes.* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | to distinguish spacial LESSON 7: Use of  properities sides(equal,parallel), angles,diagonals(Equ al,bisecte,perpendic  ular),lines of symetry,order of rotational symetry to distinguish spacial | ***Knowledge and understanding*** : State geometric properties that can be used to distinguish shapes.  ***Skills:*** *Determine the symmetrical*  *properties of 2D shapes.*  ***Attitudes and values:*** *Appreciate the use of properties to distinguish shapes.* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | quadrilaterals:rectanLESSON 8: Use of  properities sides(equal,parallel), angles,diagonals(Equ al,bisecte,perpendic  ular),lines of symetry,order of rotational symety to  distinguish specialquadrilaterals  : rhombus | ***Knowledge and understanding*** : State geometric properties that can be used to distinguish shapes.  ***Skills:*** *Determine the symmetrical*  *properties of 2D shapes.*  ***Attitudes and values:*** *Appreciate the use of properties to distinguish shapes.* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 9: Use of properities sides(equal,parallel), angles,diagonals(Equ al,bisecte,perpendic  ular),lines of symetry,order of rotational symetry to distinguish special qudrelaterals:  parallelograms | ***Knowledge and understanding*** : State geometric properties that can be used to distinguish shapes.  ***Skills:*** *Determine the symmetrical*  *properties of 2D shapes.*  ***Attitudes and values:*** *Appreciate the use of properties to distinguish shapes.* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | LESSON 10: Use of  properities sides(equal,parallel), angles,diagonals(Equ al,bisecte,perpendic  ular),lines of symetry,order of rotational symetry to distinguish special | ***Knowledge and understanding*** : State geometric properties that can be used to distinguish shapes.  ***Skills:*** *Determine the symmetrical*  *properties of 2D shapes.*  ***Attitudes and values:*** *Appreciate the use of properties to distinguish shapes.* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | qudrelaterals:TrapezLESSON 11: Use of  properities sides(equal,parallel), angles,diagonals(Equ al,bisecte,perpendic  ular),lines of symetry,order of rotational symetry to distinguish special  qudrelaterals:Trapez  ium | ***Knowledge and understanding*** : State geometric properties that can be used to distinguish shapes.  ***Skills:*** *Determine the symmetrical*  *properties of 2D shapes.*  ***Attitudes and values:*** *Appreciate the use of properties to distinguish shapes.* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 12: Use of  properities sides(equal,parallel), angles,diagonals(Equ al,bisecte,perpendic  ular),lines of symetry,order of rotational symetry to distinguish special qudrelaterals:kite | ***Knowledge and understanding*** : State geometric properties that can be used to distinguish shapes.  ***Skills:*** *Determine the symmetrical*  *properties of 2D shapes.*  ***Attitudes and values:*** *Appreciate the use of properties to distinguish shapes.* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 13:  ASSESMENT | Assessment |  |  |  |
|  | UNIT16:Area of  2D Shapes | LESSON1:perimeter  of aClosed figer:Triangle | ***Knowledge and understanding*** : Explain perimeter as the space around a shape. ***Skills:*** *Practically determine the perimeter of triangles.*  ***AttitudeS and valueS:*** *Appreciate the perimeter of different triangles.* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 2:  perimeter of a closed figer:Square and rectangle | ***Knowledge and understanding*** : Explain perimeter as the space around a shape. ***Skills:*** *Practically determine the perimeter*  *of square and rectangle.*  ***AttitudeS and valueS:*** *Appreciate the perimeter of a square and rectangle.* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
| **Week 8:**  **03-07/06/2024** |  | LESSON 3: Perimeter of aclosed figer  :parallelogram and  Rhombus | ***Knowledge and understanding*** : Explain perimeter as the space around a shape. ***Skills:*** *Practically determine the perimeter of parallologram ang rhombus.* ***Attitudes and values:*** *Appreciate the perimeter of parallelogram and rhombus.* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 4: Perimeter of aclosed figer :trapezium and other figure shapes | ***Knowledge and understanding*** : Explain perimeter as the space around a shape. ***Skills:*** *Practically determine the perimeter of trapezium.*  ***Attitudes and values:*** *Appreciate the perimeter of trapezium.* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 5: Area of triangles | ***Knowledge and understanding*** : Explain area as the space enclosed by a perimeter. ***Skills:*** *Practically determine the area of triangle.*  ***Attitudes and values:*** *Appreciate that the relationship between area and perimeter is simple.* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 6: Area of quadrillaterals:Recta ngle | ***Knowledge and understanding*** : Explain area as the space enclosed by a perimeter. ***Skills:*** *Practically determine the area of rectangle.*  ***Attitudes and values:*** *Appreciate that the relationship between area and perimeter is simple.* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 7: Area of  quadrilaterals:Squar  e | ***Knowledge and understanding*** : Explain area as the space enclosed by a perimeter. ***Skills:*** *Practically determine the area of square.*  ***Attitudes and values:*** *Appreciate that the* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 8: Area of quadrilaterals:Rhom bus | *relationship between area and perimeter is* ***Knowledge and understanding*** : Explain area as the space enclosed by a perimeter. ***Skills:*** *Practically determine the area of rhombus.*  ***Attitudes and values:*** *Appreciate that the* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 9: Area of  quadrilaterals:Parall  elogram | *relationship between area and perimeter is* ***Knowledge and understanding*** : Explain area as the space enclosed by a perimeter. ***Skills:*** *Practically determine the area of*  *parallelogram.*  ***Attitudes and values:*** *Appreciate that the* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

*relationship between area and perimeter is*

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | LESSON 10: Area of  quadrilaterals:Trape zium | ***Knowledge and understanding*** : Explain area as the space enclosed by a perimeter. ***Skills:*** *Practically determine the area of trapezium.*  ***Attitudes and values:*** *Appreciate that the relationship between area and perimeter is simple.* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
| **Week 9:**  **10-14/06/2024** |  | LESSON 11: Area of quadrilaterals:kite | ***Knowledge and understanding*** : Explain area as the space enclosed by a perimeter. ***Skills:*** *Practically determine the area of kite.*  ***Attitudes and values:*** *Appreciate that the relationship between area and perimeter is simple.* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 12:Area of shapes that can be related to rectangle | ***Knowledge and understanding*** : Explain area as the space enclosed by a perimeter. ***Skills:*** *Practically determine the area of shapes that can be related to rectangle.* ***Attitudes and values:*** *Appreciate that the relationship between area and perimeter is simple.* | Group work  Discussion | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON  13:ASSESMENT | Assessment |  |  |  |
|  | UNIT  17:Elementary statistics | Lesson 1:Meaning of statistic and data | ***Knowledge and understanding*** : Explain the  concepts of statistic and data ***Skills:*** *Define statistic and data.*  ***Attitudes and values:*** *Appreciate the importance of statistic and data.* | Group discussion,Obse rvation,Demons tration | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 2:Meaning of statistic and data | ***Knowledge and understanding*** : Explain the  concepts of statistic and data ***Skills:*** *Define statistic and data.*  ***Attitudes and values:*** *Appreciate the importance of statistic and data.* | Group discussion,Obse rvation,Demons tration | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 3:Types of data:Quantitative data | ***Knowledge and understanding*** :  Differenciate between quantitative and  qualitative data.  ***Skills:*** *Apply the knowledge acquired to distinguish between quantitative and qualitative data.*  ***Attitudes and values:*** *Appreciate the use of quantitative and qualitative data.* | Group discussion,Obse rvation,Demons tration | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | LESSON 4:Types of data:Qualitative data | ***Knowledge and understanding*** :  Differenciate between quantitative and  qualitative data.  ***Skills:*** *Apply the knowledge acquired to distinguish between quantitative and qualitative data.*  ***Attitudes and values:*** *Appreciate the use of quantitative and qualitative data.* | Group discussion,Obse rvation,Demons tration | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 5:Ways of collecting data | ***Knowledge and understanding*** : Explain  how data are collected .  ***Skills:*** *Analyse and describe the possible*  *ways data is collected.*  ***Attitudes and values:*** *Appreciate the importance of data collection in daily life stuations.* | Group discussion,Obse rvation,Demons tration | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON  7:Representing data using table | ***Knowledge and understanding*** : Describe how to represent information using tables. ***Skills:*** *Explain different ways of*  *representing data.*  ***Attitudes and values:*** *Appreciate the importance of statistics in daily life stuations.* | Group discussion,Obse rvation,Demons tration | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
| **Week 10**  **17-21/06/2024** |  | LESSON  8:Representing data using bar graphs | ***Knowledge and understanding*** : Describe how to represent information using bar graphs.  ***Skills:*** *Explain different ways of*  *representing data.*  ***Attitudes and values:*** *Appreciate the importance of statistics in daily life stuations.* | Group discussion,Obse rvation,Demons  tration | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON  9:Interpreting and extracting information from tables and bar graphs | ***Knowledge and understanding*** : Explain the process of interpretang and extracting information from tables and bar graphs. ***Skills:*** *Solve mathematical problems involving interpretations and extractions of information from tables in daily life.* ***Attitudes and values:*** *Appreciate the importance of statistic tables and bar graphs in daily life situations.* | Group discussion,Obse rvation,Demons  tration | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON | Assessment |  |  |  |
|  | UNIT18:Introcti  on to probability | 10:LESSON 1:Meaning ASSESMENT  of probability | ***Knowledge and understanding*** : Explain the  meaning of probability.  ***Skills:*** *Define probability.*  ***Attitudes and values:*** *Appreciate the importance of probability in daily life.* | Group work | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | LESSON 2:Playgames of chance and decide whether or not they are fair. | ***Knowledge and understanding*** : Know and explain that games have rules and may not be fair .  ***Skills:*** *To take turns when playing games of chance invilving coins,dice and cards.* ***Attitudes and values:*** *Appreciate the importance of following rules and taking turns when playing games.* | Group work | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | LESSON 3:The rules of the games | ***Knowledge and understanding*** : Know and explain that games have rules and may not be fair .  ***Skills:*** *To decide whether or not a game is fair.*  ***Attitudes and values:*** *Appreciate the importance of following rules and taking turns when playing games.* | Group work | Mathematics for  Rwandan primary shools,pupil's book P4.(SPOT LIGHT) |  |
|  |  | **LESSON 4:**  **ASSESMENT** | Assessment |  |  |  |
| **Week 11 &12**  **24/06/-05/07/2024** | **EXAMS** |  |  |  |  |  |
|  |  |  |  |  |  |  |