**NYAMASHEKE DISTRICT**

**SCHEME OF WORK/ P4 MATHEMATICS**

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

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

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| **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** |
| WEEK125-29/9/2023 | 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)  |  |

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|  |  | 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)  |  |

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|  |  | 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)  |  |

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|  |  | 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:substraction 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:Substraction 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,observation.  | 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

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|  |  | LESSON 33: OPERATIONS:Multiplication 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:Problems 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:Problems 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:Problems 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.

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|  |  | 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,Puzzles. | 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)  |  |

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| **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)  |  |

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|  |  | 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)  |  |

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|  |  | 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** |
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|  **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)  |  |

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|  |  | 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)  |  |

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|  |  | 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)  |  |

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|  |   | 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,Observation | 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,Observation  | 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,Observation  | 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:Hundredths | 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,Observation  | 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,Observation  | 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,Observation  | 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.

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|  |  | 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)  |  |

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| **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 |  |  |  |

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| **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)  |  |

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|  |  | 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)  |  |

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|  |  | 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)  |  |
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| **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

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|  |  | 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)  |  |

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|  |  | 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)  |  |

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|  |  | 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)  |  |

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|  |  |  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)  |  |

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|  |  | 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)  |  |

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|  |  | 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,perpendicular),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,perpendicular),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,perpendicular),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,perpendicular),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)  |  |

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|  |  | LESSON 10: Use of properities sides(equal,parallel), angles,diagonals(Equ al,bisecte,perpendicular),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,perpendicular),lines of symetry,order of rotational symetry to distinguish special qudrelaterals:Trapezium  | ***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,perpendicular),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:Square | ***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:Parallelogram | *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*

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|  |  | 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)  |  |

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|  |  | 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,Demonstration | 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,Demonstration | Mathematics for Rwandan primary shools,pupil's book P4.(SPOT LIGHT)  |  |
|  |  | LESSON  | Assessment |  |  |  |
|  | UNIT18:Introction to probability | 10:LESSON 1:Meaning ASSESMENTof 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)  |  |

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|  |  | 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** |  |  |  |  |  |
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