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| **Main Competence** | **Specific Competence** | **Teaching Activities** | **Month** | **Week** | **Period s** | **Reference** | **Teaching & Learning Tools** | **Assessment Tools** | **Remarks** |
| Orientation course (08/01/2024- 23/02/2024) | | | | | | | | | |
| USE NUMBERS | write Base Ten Numiration | 1. To lead students to identify base ten numeration with the ten digits 2. to lead students to write numbers up to one billion in numerals | Februa ry | Week 4 | 6 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | 1. Number cards, 2. Number charts , 3. Abacus , | * Quizzes, questions and answers |  |
| USE NUMBERS | know Natural and Whole Number | 1. To lead students to discuss the role of numbers in daily life. 2. To demonstrate natural and whole numbers using the number line, | March | Week 1 | 6 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | iv) Clock faces , v) Digital Addition templates vi) Base ten mat | * class presentation, tests and group discussion |  |
| USE NUMBERS | perform Operations with Whole Number-s | 1. To lead students to perform addition in horizontal and vertical arrangements. 2. To lead students to perform subtraction in horizontal and vertical. 3. To explain the meaning of multiplication in relation to addition. 4. To explain the meaning of division in relation to subtraction and multiplication. 5. To use relevant examples to lead students to discuss how to use basic operations to solve world problems. 6. To use relevant examples to lead students to discuss how to use basic operations to solve word problems | March | Week 2 | 6 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Multiplication tables, Abacus | * observation, remedial work, take home assignment |  |

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| USE NUMBERS | Find Factors and Multiples of Numbers | 1. To demonstrate how to find all factors/divisors of a given number. 2. To show students how to find the prime factors of given numbers by a factor tree. 3. To use questions and answers to lead students in listing multiples of numbers. 4. To guide students to identify common factors of two or more numbers. 5. To lead students to discuss how to find the greatest common factor of two or more numbers. 6. To lead a discussion on how to find the lowest common multiples (LCM) of two or more numbers. | March | Week 3 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Factor tree, Factor chart and Number cards | * Quizzes, questions and answers |  |
| USE NUMBERS | compute Integers | i) To guide discussion on real life examples which portray the concepts of positive and negative numbers such as debts and credits, above and below sea level and temperatures above and below zero. | March | Week 3 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Manila paper, Marker pens, Abacus and Number line | * class presentation, tests and group discussion |  |
| MID TERM EXAM-22/03/2024-27/03/2024 MID TERM BREAK-28/03/2024-07/04/2024 | | | | | | | | | |
| USE NUMBERS | compute Integers | 1. To demonstrate to the students how to represent integers on the number line. 2. To demonstrate on the use of the number line to perform addition of integers. 3. The teacher to lead students to use the number line to perform subtraction of integer. 4. To lead students to perform the multiplication of integers. 5. To lead a discussion on the division of integers. | April | Week 3 | 6 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Manila paper, Marker pens, Abacus and Number line | * observation, remedial work, take home assignment |  |

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| **Main Competence** | **Specific Competence** | **Teaching Activities** | **Month** | **Week** | **Period s** | **Reference** | **Teaching & Learning Tools** | **Assessment Tools** | **Remarks** |
| COMPUTE FRACTIONS | Use Proper, Improper and Mixed Numbers | 1. To use familiar examples to demonstrate fractions. 2. To lead the students to compare and contrast numerator and denominator, different fractions, so as to distinguish between proper and improper fractions. | April | Week 4 | 6 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Pair of scissors, Manila paper and Razor blade | * Quizzes, questions and answers * class presentation, tests and group discussion |  |
| COMPUTE FRACTIONS | Make Comparison of Fractions | i) To demonstrate to students how to simplify fractions to lowest terms. ii) To demonstrate how to generate equivalent fractions by multiplying or dividing the numerator and denominator by the same number.  iii) To lead discussion on how to use LCM to compare different fractions | May | Week 1 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Number of line, Manila paper , Oranges, etc | * Quizzes, questions and answers * class presentation, tests and group discussion |  |
| COMPUTE FRACTIONS | Carry Operations on Fractions | 1. To lead students to perform addition of fractions using real objects. 2. To lead students to perform subtraction of fractions using real objects. 3. To guide students to conduct multiplication of fractions using illustration. | May | Week 1 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Oranges, Manila, Marker pens and Real objects | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| COMPUTE FRACTIONS | Carry Operations on Fractions | 1. To demonstrate the division of fractions. 2. To guide students to solve mixed operations on fractions. vi) To formulate practical problems involving fractions and lead students in solving them systematically. | May | Week 2 | 6 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Oranges, Manila, Marker pens and Real objects | * Quizzes, questions and answers |  |
| COMPUTE DECIMALS AND PERCENTAGE S | Find Decimals | 1. To lead students to explain the concept of decimals by brainstorming. 2. To demonstrate the conversion of fractions to terminating and repeating decimals and vice versa | May | Week 3 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Shillings and Cents | * class presentation, tests and group discussion |  |

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| **Main Competence** | **Specific Competence** | **Teaching Activities** | **Month** | **Week** | **Period s** | **Reference** | **Teaching & Learning Tools** | **Assessment Tools** | **Remarks** |
| COMPUTE DECIMALS AND PERCENTAGE S | Operations on Decimals | 1. To lead a discussion on the relationship between decimals and other numbers. 2. To demonstrate the plotting of the decimals on the number line. 3. To lead students to discuss the multiplication of decimals horizontally and vertically. 4. The teacher to lead students to discuss the division of decimals. 5. To demonstrate the subtraction of decimals vertically and horizontally. 6. To formulate practical problems involving fractions and lead students in solving them systematically | May | Week 3 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Shillings and Cents | * observation, remedial work, take home assignment |  |
| TERMINAL EXAM- 20/05/2024-30/05/2024 END OF TERM ONE HOLIDAY BREAK-31/05/2024-01/07/2024 | | | | | | | | | |
| COMPUTE DECIMALS AND PERCENTAGE S | calculate Percentages | 1. To discuss with students how to express a quantity as a percentage. 2. To demonstrate the conversion of fractions into percentages by multiplying by 100%. 3. To lead students to discuss how to convert percentages into fractions by dividing by 100%. 4. To lead a discussion with students how to convert decimals into percentages. 5. To guide students to convert percentages into decimals. 6. To guide students to discuss how to solve daily life problems involving percentages. | July | Week 1 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Shillings, Cents, Pie charts and Research reports | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| UNDERSTAND UNITS | Find Units of Length | The teacher to demonstrate the computation and conversion of one unit into the other. | July | Week 1 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Meter ruler & Charts | * Quizzes, questions and answers |  |

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| UNDERSTAND UNITS | Find Units of Mass | 1. To guide students to discuss the metric system of mass and their prefixes. 2. To demonstrate the conversion of one unit to the other. 3. To demonstrate the computations on metric unit of mass. | July | Week 2 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Weighing scale, Spring balance and Standard weights charts of units of mass | * Quizzes, questions and answers, * class presentation, tests, monthly evaluation * project work, debates, group discussion, * observation, remedial work, take home assignment |  |
| UNDERSTAND UNITS | Find Units of time | 1. To lead students to discuss how to read and write time using a 12 hour clock. 2. To demonstrate the conversion of one unit of time to another. 3. To lead student to discuss how to read and write time using a 24 hour clock. 4. To guide students discuss on how to convert time from 12 hour clock to a 24-hour clock and vice versa. | July | Week 2 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Clock faces, Time tables, 24 hour clock and 12 hour clock | * Quizzes, questions and answers |  |
| UNDERSTAND UNITS | Find Units of Capacity | 1. To describe the meaning of capacity and relate it with volume of quantities. 2. To lead a discussion on how a litre is related to other units of volume. 3. The teacher to lead students to brainstorm on various daily life situations in which a litre is applied to measure capacity. | July | Week 3 | 6 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Litre containers, Bottles | * class presentation, tests and group discussion |  |
| MAKE APPROXIMATI ONS | Find Rounding off Numbers | 1. To show students how to round-off numbers when the digit to he right is less than 5 and when the digit to the right is greater than or equal to 5. 2. To lead students to round off decimals to the given number of decimal places when the digit to the right are <5 and when the digits to the right are >5. | July | Week 4 | 6 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Number patterns, Charts, Manila paper and Marker pens | * observation, remedial work, take home assignment |  |

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| **Main Competence** | **Specific Competence** | **Teaching Activities** | **Month** | **Week** | **Period s** | **Reference** | **Teaching & Learning Tools** | **Assessment Tools** | **Remarks** |
| MAKE APPROXIMATI ONS | Find Significant Figures | The teacher to lead a discussion on how to write numbers with decimals into significant figures. | August | Week 1 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Manila paper and Marker pens | * Quizzes, questions and answers |  |
| MAKE APPROXIMATI ONS | Find Approximation s in Calculations | To guide students to do approximations to the numbers in calculations using knowledge of round off numbers. | August | Week 1 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Number charts, Manila paper and Market pens | * class presentation, tests and group discussion |  |
| APPLY GEOMETRY | Show Points and Lines | 1. To lead students to discuss the concept of a point by using examples. 2. To demonstrate how the idea of points can be extended to get a straight line. 3. To show the students how to draw a line, a line segment and a ray. | August | Week 2 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Mathematical Set, Chalk Board ruler, Manila paper & Marker pen | * observation, remedial work, take home assignment |  |
| APPLY GEOMETRY | Show Angles | 1. To demonstrate drawing of an angle using two rays starting at a point. 2. To show the students how to name and angle. 3. To lead students to draw and name different types of angles. For example straight line, right angle, acute, obtuse, and reflex. 4. To guide students to observe a protractor and measuring angles using protractor.   (v) The teacher to demonstrate how to draw an angle using a protractor.  vi)To demonstrate how to draw an angle using using protractor | August | Week 2 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Manila paper, Mathematical instruments, Chalkboard ruler, Protractor and Protractor ruler | * Quizzes, questions and answers |  |

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| APPLY GEOMETRY | Show Constructions | 1. To demonstrate to students how to construct perpendicular bisector to a line segment using compasses. 2. To demonstrate to the students how to construct an angle of 60 degrees by using compasses. 3. To illustrate to the students how to bisect a angle by using compasses. 4. To lead students to construct angles of 30, 45, 150, 120 and 135 degree by combining constructions. 5. To show the students how to copy a given angle by construction. 6. To demonstrate to the students how to construct parallel lines. 7. To lead students to discuss different types of angles formed by parallel lines and a transversal, including corresponding angles, alternate interior angles, alternate exterior angles, vertically opposite angles, complementary angles and su | August | Week 3 | 2 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Mathematical instruments and Ruler | * Quizzes, questions and answers |  |
| APPLY GEOMETRY | Show Polygons and Regions | 1. To guide the students to draw a polygon and its properties (sides, vertices, angles). 2. To show how to draw and name triangles and lead students to discuss on the sides, vertices and angles. 3. To lead students to discuss different types of triangles and their properties. 4. To guide students to draw triangles using mathematical sets (given three sides, one side and two angles, two sides and the included angle). 5. The teacher to lead students to discuss how to construct rectangles, parallelograms, square, rhombus and trapezium. | August | Week 3 | 2 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Mathematical instruments, Ruler, Geoboard and Rubber bands | * class presentation, tests and group discussion |  |

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| **Main Competence** | **Specific Competence** | **Teaching Activities** | **Month** | **Week** | **Period s** | **Reference** | **Teaching & Learning Tools** | **Assessment Tools** | **Remarks** |
| APPLY GEOMETRY | use Circle | 1. To lead students to identify circular objects in the surrounding. 2. To demonstrate how to draw a circle using compasses. 3. To guide students to draw circles of different sizes using compasses. 4. To lead students to discuss the following terms: centre, diameter, radius, chord, circumference, arc, segment, sector. | August | Week 3 | 2 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Geometrical instruments, Manila paper, Ropes, Circular objects and Mathematical instruments | * class presentation, tests and group discussion |  |
| MANIPULATE ALGEBRA | Find Algebraic Operations | 1. To use daily life examples to show how letters are used to represent objects. 2. To demonstrate to the students how letters can be used to represent numbers. 3. To show students how to form algebraic expressions using letters. 4. To guide students to discuss how to add and subtract like terms. 5. To lead students to discuss on the multiplication and division of like and unlike terms. 6. To lead students discuss how to simplify expressions involving brackets and fractions. | August | Week 3 | 2 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Colored chalk Manila Cards | * Quizzes, questions and answers |  |
| MID TERM EXAM-23/08/2024-29/08/2024-MID TERM BREAK-30/08/2024-16/09/2024 | | | | | | | | | |
| MANIPULATE ALGEBRA | Find Equations with One Unknown | 1. To demonstrate to the students how to solve equation of one unknown. 2. To lead the students to formulate equations involving one unknown from work problems | Septem ber | Week 3 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Beam balance, Colored chalk, ) Manila paper and Marker pen | * Quizzes, questions and answers |  |

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| **Main Competence** | **Specific Competence** | **Teaching Activities** | **Month** | **Week** | **Period s** | **Reference** | **Teaching & Learning Tools** | **Assessment Tools** | **Remarks** |
| MANIPULATE ALGEBRA | Find Equations in Two Unknowns | 1. To lead students to generate possible solutions (ordered pairs) of an equation in two unknowns. 2. To demonstrate how to solve linear simultaneous equations by elimination method. 3. To demonstrate how to solve linear simultaneous equations by the substitution method. 4. To lead students to form linear simultaneous equations from word problems 5. To lead a discussion with students on various situations in daily life in which linear simultaneous equations are applied. | Septem ber | Week 3 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | * Graph papers * Manila paper * Marker pens * Worksheets | - observation, remedial work, take home assignment |  |
| MANIPULATE ALGEBRA | Find Inequalities | 1. To lead the students on how to use the symbols >, >=, <, and =< in mathematical statements. 2. To demonstrate to the students how to solve inequalities involving one unknown without changing the sign. 3. To demonstrate to the students to solve inequalities involving changing the sing. 4. To lead students group discussion on how to form linear inequalities from word problems. 5. To guide students to solve linear inequalities involving word problems | Septem ber | Week 4 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | * Manila paper * Market pens * Worksheet | - Quizzes, questions and answers |  |
| MANIPULATE ALGEBRA | Find Rational Numbers | 1. To lead students to discuss rational numbers. 2. To demonstrate to students on how to perform the basic operations with rational numbers. 3. To lead students to make conclusions on the presented work. 4. To demonstrate multiplication and division of rational numbers | Septem ber | Week 4 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | * Number line * Manila paper * Worksheets | - Quizzes, questions and answers |  |

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| **Main Competence** | **Specific Competence** | **Teaching Activities** | **Month** | **Week** | **Period s** | **Reference** | **Teaching & Learning Tools** | **Assessment Tools** | **Remarks** |
| MANIPULATE ALGEBRA | Find Irrational Numbers | 1. To demonstrate to students on how to perform the basic operations with rational numbers. 2. To lead students to make conclusions on the presented work. 3. To demonstrate multiplication and division of rational numbers | Octobe r | Week 1 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | * Charts | - Quizzes, questions and answers |  |
| MANIPULATE ALGEBRA | calculate Real Numbers | 1. To use the number line to illustrate tire concept of real numbers. 2. To explain to students the concept of absolute value of real numbers using practical examples. 3. To demonstrate the absolute value of a number. 4. To lead students to explore various activities in which absolute value of numbers is practiced. | Octobe r | Week 1 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | * Manila paper * Marker pen * Graph papers * Worksheets | - Quizzes, questions and answers |  |
| CALCULATE RATIO, PROFIT AND LOSS | Find Ratio | 1. To lead students to discuss the relationship between ratio and fraction. 2. To guide students to make correct conclusions. 3. To lead students to discuss on how to divide a given quantity into its proportional parts. | Octobe r | Week 2 | 2 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | * Money * Real objectives * Physical Items | - class presentation, tests and group discussion |  |
| CALCULATE RATIO, PROFIT AND LOSS | Find Profits and Loss | 1. To lead students to discuss on the meaning of profit and loss. 2. To demonstrate how to calculate percentage profit or percentage loss. | Octobe r | Week 2 | 2 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | * Money * Real objectives * Physical Items | - class presentation, tests and group discussion |  |
| CALCULATE RATIO, PROFIT AND LOSS | Find Simple Interest | 1. To lead students to discuss on the formula I=PRT/100 for calculating simple interest. 2. To lead students to solve real life problems related to simple interest. | Octobe r | Week 3 | 2 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | * Money Bank * Bank Statements * Worksheet | - class presentation, tests and group discussion |  |

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| APPLY COORDINATE GEOMETRY | Find Coordinates of a Point | 1. To lead students to discuss how to draw and label the coordinate axes. 2. To lead students to plot a point in the xy plane. 3. To lead students in plotting points of given coordinates. 4. To demonstrate the location of a point on the xy plane. | Octobe r | Week 3 | 4 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | * Geoboard * Manila paper * Graph paper * Rubber band | - class presentation, tests and group discussion |  |
| APPLY COORDINATE GEOMETRY | Find Gradient (Slope) of a Line | 1. To lead students to discuss the meaning of gradient (slope) of a line. 2. To guide students to determine the gradient of a line given two points. | Octobe r | Week 4 | 2 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | * Geoboard * Manila paper * Graph paper * Rubber band | - class presentation, tests and group discussion |  |
| APPLY COORDINATE GEOMETRY | Find Equation of a Line | To lead students to use the definition of gradient to determine the equation of a line in the form y=mx + c, where m=gradient and c=y-intercept. | Octobe r | Week 4 | 2 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | * Manila paper * Rubber band * Graph paper | - class presentation, tests and group discussion |  |
| APPLY COORDINATE GEOMETRY | Find Graphs of Linear equations | i) To lead the students to form a table of values and intercepts of a given linear equation. ii) To demonstrate on how to draw the graph of linear equations using a table of values. | Novem ber | Week 1 | 6 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | * Graph paper * Graph board | - class presentation, tests and group discussion |  |
| APPLY COORDINATE GEOMETRY | Solve Simultaneous Equations | 1. To guide students to plot the graph of the linear equations on the same coordinate plane. 2. To lead students to determine the point of in Students individually to read the solution of linear simultaneous equations from the point of intersection. | Novem ber | Week 2 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Graph paper | - class presentation, tests and group discussion |  |

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| **Main Competence** | **Specific Competence** | **Teaching Activities** | **Month** | **Week** | **Period s** | **Reference** | **Teaching & Learning Tools** | **Assessment Tools** | **Remarks** |
| FIND PERIMETERS AND AREAS | Find Perimeters of Triangles and Quadrilaterals | 1. To lead students to discuss the meaning of perimeters. 2. To lead students to discuss how to determine perimeters of triangles and quadrilaterals. 3. To lead students to make conclusions on the group work presentations. | Novem ber | Week 2 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | * Triangles * Quadrilaterals * Rope * Tape measure * Rule | - Quizzes, questions and answers |  |
| FIND PERIMETERS AND AREAS | Find Circumference of a Circle | 1. To lead students to measure the circumference and diameter of difference and diameter of different circular objects practically. 2. To lead students to find the ratio of circumference, using the obtained measurement of diameter. 3. To lead students to compare their results to reduce the value of pie. 4. To demonstrate the calculation of circumference of a circle | Novem ber | Week 3 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | * Circular objects * Rope * Thread * Ruler * Worksheet | - Quizzes, questions and answers |  |
| FIND PERIMETERS AND AREAS | Find Areas of rectangles and triangles | 1. To lead students to discuss on how to obtain the formula for the area of rectangle. 2. To guide students to discuss on how to reduce the area of a triangle from the area of a rectangle. | Novem ber | Week 3 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | * Manila paper * Marker pen * Geo-board | - Quizzes, questions and answers |  |
| FIND PERIMETERS AND AREAS | Find Areas of rectangles and triangles | 1. To lead students to discuss on how to obtain the formula for the area of rectangle. 2. To guide students to discuss on how to reduce the area of a triangle from the area of a rectangle. | Novem ber | Week 4 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | * Manila paper * Marker pen * Geo-board | - Quizzes, questions and answers |  |

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| FIND PERIMETERS AND AREAS | Find Areas of trapezium and parallelogram | 1. To lead students to find the formula to calculating the area of parallelogram. 2. To lead students to obtain the formula for calculating the area of a trapezium. | Novem ber | Week 4 | 3 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | * Manila * Marker pen * Geoboard | - Quizzes, questions and answers |  |
| FIND PERIMETERS AND AREAS | Find Area of a Circle | To guide a students on how to perform a practical exercise on how to determine the formula for finding the area of a circle | Decem ber | Week 1 | 6 | Basic Mathematics For Secondary Schools.  Students Book Form One. By T.I.E | Worksheets | - Quizzes, questions and answers |  |
| ANNUAL EXAMINATION 28/11/2024-05/12/2024 END OF YEAR HOLIDAY 07/12/2024 | | | | | | | | | |