**MATHEMATICS SCHEMES OF WORK**

**FORM ONE 2016**

**TERM I**

**REFERENCES:**

1. Advancing in Mathematics BK 4 By Longhorn Kenya Publishers
2. Secondary Mathematics BK 4 By KLB
3. Macmillan Secondary Maths BK 2
4. Explore Mathematics

Compiled by Schools Net Kenya (SNK) in partnership with Jospa Publishers | P.O. Box 3029 – 00200 Nairobi |

Coordinated by KENPRO, Macjo Arcade, 4th Floor, Suite 15E, Off Magadi Road, Ongata Rongai |Tel: +254202319748 |

E-mail: infosnkenya@gmail.com | Website: [www.schoolsnetkenya.com/](http://www.schoolsnetkenya.com/)

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| **WK** | **LSN** | **TOPIC** | **SUB-TOPIC** | **OBJECTIVES** | **L/ACTIVITIES** | **L/T AIDS** | **REFERENCE** | **REMARKS** |
| 4 |  | **REPORTING** |  |
| 5 | 1-2 | Natural Numbers | Place Value of Numbers | By the end of the lesson, the learner should be able to:Identify, read and write natural numbers in symbols and wordsIdentify the place value of a number | Discussions Solving problems in groups and individuallyIllustrations | Charts showing place value of a numberThe AbacusBank cheques and statements | Discovering secondary mathematics Book 1 Pages 1-3Secondary mathematics KLB book 1 pages 1-2Advantages in mathematics book 1 pages 1-2 |  |
| 3-4 | Natural Numbers | Round off Numbers | By the end of the lesson, the learner should be able to:Round off numbers to the nearest tens hundreds, thousands, millions and billions | DiscussionsSolving problems involving rounding off numbersGuiding Illustrations | Charts to show the rounding off of numbersNumber lineScales on a ruler, thermometer, vernier calipers | Discovering secondary mathematics book 1 page 3KLB book 1 page 3Secondary mathematics KIE book 1 page 2Advancing in mathematics book 1 pages 3-4 |  |
| 5-6 | Natural Numbers | Classification and operation on natural numbers | By the end of the lesson, the learner should be able to:Classify numbers as odd, even and primeSolve word problems involving natural numbers | DiscussionsSolving problems involving even, odd and prime nimbersCarrying out operations on natural numbersClassificationGuiding | Charts to show the natural numbersNumber linePlace value chartsAbacus | Discovering secondary mathematics book 1 pages 4-8 Secondary mathematics KLB book 1 pages 4-9Advancing mathematics book 1 pages 4-5Secondary mathematics KIE book 1 pages 9-11 |  |
| 6 | 1 | Factors | Factors of composite numbers | By the end of the lesson, the learner should be able to:Find factors of various composite numbersExpress composite numbers in factor form | Solving problems involving factors of composite numbersDiscussionsIllustrations | Charts to show the factorization of numbersFactor – tree diagram | Discovering Secondary mathematics book 1 pages 9Secondary mathematics KLB book 1 page 10Secondary mathematics KIE book 1 page 12-14Advancing in mathematics book 1 page 7 |  |
| 2 | Factors | Prime Factors | By the end of the lesson, the learner should be able to:Define the term prime factorExpress numbers as products of prime factors | DiscussionsDemonstrationsListing the prime factors of numbersSolving problems involving prime factors Guiding | Charts to show the factorization of numbersMultiplication tables | Discovering secondary mathematics book 1 page 10KLB book 1 pages 10-11Advancing mathematics book 1 page 9Secondary mathematics KIE book 1 page 12 |  |
| 3-4 | Factors | Factors in power form | By the end of the lesson, the learner should be able to:Express factors in power form | Solving problems involving factors expressed in power formDiscussionGuiding the learner to express prime factors in power | Charts to show the factorization of numbers Multiplication table | Discovering secondary mathematics book 1 page 10KLB book 1 pages 10- 11Advancing mathematics book 1 page 9Secondary mathematics KIE book 1 page 12 |  |
| 5-6 | Divisibility Test | Divisibility of numbers by 2, 3, 4, 5 | By the end of the lesson, the learner should be able to:Test the divisibility of numbers by 2, 3, 4, 5 | DiscussionsSolving problems involving divisibility of numbers by 2, 3, 4,5Dividing numbersListing the prime factors of numbersIllustrations | Divisibility test chartsMultiplication tablePrime numbers | Discovering secondary mathematics book 1 page 10KLB book 1 pages 11-15Advancing mathematics book 1 page 10-11Secondary mathematics KIE book 1 page 14 |  |
| 7 | 1-2 | Divisibility Test | Divisibility of numbers by 6, 8, 9 | By the end of the lesson, the learner should be able to:Test the divisibility of numbers by 6, 8, 9 and use the knowledge of divisibility to solve problems | DiscussionsSolving problems involving the divisibility of numbers of 6, 8, and 9Illustrating to the learner how to test divisibility of numbers by 6, 8, 9, 10 and 11 | Divisibility test chartsMultiplication tableMultiples of numbersFactors of numbers Prime numbers | Discovering secondary mathematics book 1 page 10 - 11KLB book 1 pages 16 - 17Advancing mathematics book 1 page 11Secondary mathematics KIE book 1 page 14 |  |
| 3-4 | Divisibility Test | Divisibility of numbers 10 and 11 | By the end of the lesson, the learner should be able to:Carry out the divisibility test of 10 and 11 | Dividing numbersDiscussionsSolving problems | Divisibility test chartsMultiplication tableMultiples of numbersFactors of numbers Prime numbers | Discovering secondary mathematics book 1 page 10 KLB book 1 pages 19 - 21Advancing mathematics book 1 page 12Secondary mathematics KIE book 1 page 14 |  |
| 5 | Greatest Common Divisor (Gcd) | GCD of a set of numbers | By the end of the lesson, the learner should be able to:Find the GCD of a set of numbersApply GCD in real – life situations | DiscussionsProbing learners understanding of GCDReinforcing earlier knowledgeSolving problems involving GCD | Charts to show how to get GCDMultiplication tablesContainers of different capacities | Discovering secondary mathematics book 1 page 10 - 11KLB book 1 pages 22 - 23Advancing mathematics book 1 page 13Secondary mathematics KIE book 1 page 15 |  |
| 6 | Least Common Multiple (Lcm) | Multiples of numbers | By the end of the lesson, the learner should be able to:List the multiples of numbers | DiscussionsWorking out the multiples of numbersSolving problems involving multiples of numbersGuiding learner exercises to list down multiples of numbers. | Prime numbers Multiplication tablesNatural numbersEven numbersOdd numbersContainers of different capacitiesFlickering light | Discovering secondary mathematics book 1 page 11KLB book 1 pages 22 - 24Advancing mathematics book 1 page 14Secondary mathematics KIE book 1 page 15 |  |
| 8 | 1-2 | Least Common Multiple (Lcm) | LCM of a set of numbers | By the end of the lesson, the learner should be able to:Find the least common multiple of a set of numbersApply the knowledge of LCM in real – life situations | DiscussionsWorking out the multiples of numbersIllustrating and solving problems involving multiples of numbersSolving word problems from everyday life situations | Multiplication tablesNatural numbersPrime numbersMultiples of numbersEven numbersOdd numbersBells Flickering lightsAlarmsContainers of different capacities | Discovering secondary mathematics book 1 page 11KLB book 1 pages 25 - 26Advancing mathematics book 1 page 15Secondary mathematics KIE book 1 page 15 |  |
| 3-4 | Integers | Integers | By the end of the lesson, the learner should be able to:Define integersIdentify integers on a number line | DiscussionsReading numbers on a number lineShowing numbers on a number lineSolving problems involving integers and the number lineDefinition  | Number lineStairwaysNatural numbersWhole Numbers | Discovering secondary mathematics book 1 page 14KLB book 1 pages 27- 29Advancing mathematics book 1 page 18Secondary mathematics KIE book 1 page 1-3 |  |
| 5-6 | Integers | Operations of integers | By the end of the lesson, the learner should be able to:Perform the four basic operations on integers using the number line | DemonstrationsDiscussionsIllustrating and solving problems involving four basic operations on integersExplanationsDiscussing exercises | Charts showing integersNumber lineStair caseLadderThermometerReal life situations | Discovering secondary mathematics book 1 page 16-20KLB book 1 pages 30-36Advancing mathematics book 1 page 22-29Secondary mathematics KIE book 1 page 3-8 |  |
| 9 | 1-2 | Integers | Combined operations | By the end of the lesson, the learner should be able to:*© Education Plus Agencies*Work out problems involving combined operations on integers in the correct order | DiscussionsDemonstrationsGuiding the learner to perform operations on integers on correct orderSolving problems involving combined operations on integers | Number lineStair caseLadderThermometer | Discovering secondary mathematics book 1 page 20-22Secondary mathematics KLB book 1 pages 37-39Advancing mathematics book 1 page 30-33Secondary mathematics KIE book 1 page 9-11Discovering secondary mathematics teachers book 1 pages 6-7 |  |
| 3-4 | Fractions | The meaning of fractions | By the end of the lesson, the learner should be able to:Define fractionsIdentify and write fractions in figures (proper and improper) | DefinitionDiscussionsSolving problems involving fractions | ChartsIllustrating operations on fractions | Discovering secondary mathematics book 1 page 11Discovering secondary mathematics teachers guide pages 8-11Secondary mathematics KLB book 1 pages 40-41Advancing mathematics book 1 page 36Secondary mathematics KIE book 1 page 18 |  |
| 5-6 | Fractions | Equivalent fractions | By the end of the lesson, the learner should be able to:Identify and write equivalent fractions | DiscussionsDividing equally MeasuringWeighingSolving problems | SticksPieces of paperRulerReal life - situation | Discovering secondary mathematics book 1 page 24teachers book pages 8-11KLB book 1 pages 42-44Advancing mathematics book 1 pages 37-38Secondary mathematics KIE book 1 page 19-20 |  |
| 10 | 1-2 | Fractions | Naming fractions | By the end of the lesson, the learner should be able to:Name fractions correctly and convert an improper fraction to a mixed number and vise versa | DiscussionsSharing equallySolving problemsConverting fractionsDoing excesses | Counters such as seeds, bottle tops, stonesPieces of paperSticks | Discovering secondary mathematics book 1 pages 25-26Discovering secondary mathematics teachers guide pages 8-11KLB book 1 page 44Advancing mathematics book 1 page 38-39Secondary mathematics KIE book 1 page 20 |  |
| 3-4 | Fractions | Adding and subtracting fractions | By the end of the lesson, the learner should be able to:Add and subtract fractions | ShowingDiscussionsAddingSubtractingConverting Fractions | OrangesSticksPieces of paperCounters | Discovering secondary mathematics book 1 pages 25-26KLB book 1 page 45-48Advancing mathematics book 1 page 41Secondary mathematics KIE book 1 page 21-22 |  |
| 5-6 | Fractions | Multiplication and division of fractions | By the end of the lesson, the learner should be able to:Perform multiplication and division of fractions | DiscussionsMultiplicationDivisionConverting fractionsShowing the learner how to manipulate fractions | SticksStonesSeedsPieces of paper | Discovering secondary mathematics book 1 pages 27-29Discovering secondary mathematics teachers guide pages 8-11KLB book 1 page 49-54Advancing mathematics book 1 page 42-45Secondary mathematics KIE book 1 page 23-26 |  |
| 11 | 1-2 | Fractions | Order of operations | By the end of the lesson, the learner should be able to:Carry out combined operations on fractions on the correct order | DiscussionsAddition’SubtractionMultiplicationDivisionConversion of fractions | Multiplication tablesConversion tablesReal objects | Discovering secondary mathematics book 1 pages 29-30Discovering secondary mathematics teachers guide pages 8-11KLB book 1 page 54-57Advancing mathematics book 1 page 47Secondary mathematics KIE book 1 page 28-31 |  |
| 3-4 | Fractions | Application of fractions in a real life situation | By the end of the lesson, the learner should be able to:Solve world problems involving fractions in real life situations | DiscussionsSolving problems involving fractions in real life situation | Multiplication tablesConversion tablesReal objectsCounters | Discovering secondary mathematics book 1 pages 30-31Discovering secondary mathematics teachers guide pages 8-11Secondary mathematics KLB students book 1 page 57Advancing mathematics book 1 page 47Secondary mathematics KIE book 1 page 31 |  |
| 5-6 | Fractions | Revision | By the end of the lesson, the learner should be able to:Answer the questions in the student’s book.Further exercises |  |  |  |  |
| 12,13 | **TOPICAL EXAMINATION** |
| 14 | **END OF TERM EXAMS** |
| 15 | **PREPARATION OF REPORTS AND CLOSING** |

**MATHEMATICS SCHEMES OF WORK**

**FORM ONE 2016**

**TERM II**

**REFERENCES:**

1. Advancing in Mathematics BK 4 By Longhorn Kenya Publishers
2. Secondary Mathematics BK 4 By KLB
3. Macmillan Secondary Maths BK 2
4. Explore Mathematics

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| **WK** | **LSN** | **TOPIC** | **SUB-TOPIC** | **OBJECTIVES** | **L/ACTIVITIES** | **L/T AIDS** | **REFERENCE** | **REMARKS** |
| 1 |  | **REPORTING AND REVISION OF LAST TERMS EXAMS** |  |
| 2 | 1-2 | Decimals | Fractions and decimals | By the end of the lesson, the learner should be able to:Define decimalsConvert fractions into decimals | DefinitionDiscussions Doing exercisesIllustrationDemonstrationsDividingMultiplying | Equivalent fractionsMultiplication tablesReal life situations | Discovering secondary mathematics Book 1 Pages 32-34Discovering secondary mathematics teachers guide pages 12-15Secondary mathematics KLB book 1 pages 58-60Secondary mathematics KIE book 1 page 32-34Advancing in mathematics book 1 pages 48 |  |
| 3-4 | Decimals | Recurring decimals | By the end of the lesson, the learner should be able to:Identify and write recurring decimals | Discussions on recurring decimalsDoing exercisesDividingMultiplyingDemonstrationsExplanation | Equivalent fractionsMultiplication tablesReal – life situation | Discovering secondary mathematics book 1 page 34KLB book 1 pages 61-62Secondary mathematics KIE book 1 page 43-44Advancing in mathematics book 1 pages 59Discovering secondary mathematics teachers guide pages 12-15 |  |
| 5-6 | Decimals | Recurring decimals and fractions | By the end of the lesson, the learner should be able to:Identify recurring decimalsConvert recurring decimals into fractions | Guiding learner to identify recurring decimalsDiscussion on recurring decimals Doing exercisesConversionillustrations | Equivalent fractionsPercentagesMultiplication tables | Discovering secondary mathematics book 1 pages 35Discovering secondary mathematics teachers guide pages 25-30Secondary mathematics KLB book 1 pages 4-9Advancing mathematics book 1 pages 59Secondary mathematics KIE book 1 pages 44 |  |
| 3 | 1 | Decimals | Rounding off decimals | By the end of the lesson, the learner should be able to:Round off a decimal number to the required number of decimal places | DiscussionsEstimationRounding offDemonstrationsDoing exercises | Place value chartsRulerTape measureObjects | Discovering Secondary mathematics book 1 pages 36Secondary mathematics KLB book 1 page 64Secondary mathematics KIE book 1 page 42Advancing in mathematics book 1 page 56-57 |  |
| 2 | Decimals | Standard form | By the end of the lesson, the learner should be able to:Write numbers in standard form and apply in real life situations | DiscussionsWriting whole numbers and decimal numbers in standard formDoing exercisesIllustrationsexplanations | place value chartsmeasuring instrumentsobjects | Discovering secondary mathematics book 1 page 36-37KLB book 1 pages 62Advancing mathematics book 1 page 51-55Discovering secondary mathematics teachers guide pages 12-15KLB teachers book 25-30 |  |
| 3 | Decimals | Addition and subtraction of decimals | By the end of the lesson, the learner should be able to:Add decimalsSubtract decimals | DiscussionsDemonstrationsExplanationsAddingSubtracting | Place value chartsMeasuring instruments such as tape measure, ruler, meter ruleRegular shaped objects | Discovering secondary mathematics book 1 page 37-38KLB book 1 pages 63Advancing mathematics book 1 page 49Secondary mathematics KIE book 1 page 36-37KLB teachers book 25-30 |  |
| 4-5 | Decimals | Multiplication and division | By the end of the lesson, the learner should be able to:Multiply decimalsDivide decimals | DiscussionsDemonstrationsMultiplyingCorrecting errors caused by failure to manipulate decimal point correctlyDoing exercises | Mathematical tableMultiplication tablePlace value chartMeasuring instrumentsRegular shaped objects | Discovering secondary mathematics book 1 page 38-42KLB book 1 pages 64Advancing mathematics book 1 page 42-45Secondary mathematics KIE book 1 page 38-40 |  |
|  | 6 | Decimals | Combined operation on decimals | By the end of the lesson, the learner should be able to:Carry out operations in the correct orderApply the knowledge of decimals to real life situations | DiscussionsApplication of decimals to real life situationsAddingMultiplyingDividingSubtractingSolving puzzlesPlaying games | Place value chartsMultiplication tablesMathematical tablesTape measureMetre ruleRulerStringsRegular shaped objects | Discovering secondary mathematics book 1 page 42-43KLB book 1 pages 71-72Advancing mathematics book 1 page 60Secondary mathematics KIE book 1 page 44KLB teachers book 25-30Golden tips (KCSE) mathematics page 14 |  |
| 4 | 1-2 | Squares And Square Roots | Squares of numbers | By the end of the lesson, the learner should be able to:Define the term squareFind squares of numbers by multiplication and factorization | DiscussionsMultiplicationMemorizingDoing short testSolving puzzles | Multiplication tablesMathematical tablesCalculators (scientific) | Discovering secondary mathematics book 1 page 44-46KLB book 1 pages 73Advancing mathematics book 1 page 61-62Secondary mathematics KIE book 1 page 96-97mathematics page 60 |  |
| 3 | Squares And Square Roots | Squares of numbers greater than 1 and less than 10 | By the end of the lesson, the learner should be able to:read the mathematical tablefind the squares of numbers from the mathematical tablle | DiscussionsReading the mathematical tableEmphasizing standard formDoing short testsPlaying games  | Mathematical tablesMultiplication tablesCalculators (scientific) | Discovering secondary mathematics book 1 page 45KLB book 1 pages 75Advancing mathematics book 1 page 62-63Secondary mathematics KIE book 1 page 97 Golden tips (KCSE) mathematics page 61 |  |
| 4 | Squares And Square Roots | Squares of numbers greater than 10 | By the end of the lesson, the learner should be able to:Find the square of numbers greater than 10 from the mathematical table. | DiscussionExercisesReading mathematical tablesIllustrations | Mathematical tablesMultiplication tablesCalculators (Scientific) | KLB book 1 pages 75Discovering secondary mathematics book 1 page 45Advancing mathematics book 1 page 63Secondary mathematics KIE book 1 page 97Golden tips (KCSE) mathematics page 61 |  |
|  | 5 | Squares And Square Roots | Squares of numbers less than 1 | By the end of the lesson, the learner should be able to:Find the squares of numbers less than 1 from mathematical tables | DiscussionsDoing exercisesReading mathematical tablesSolving puzzles | Mathematical tablesMultiplication tablesCalculators (Scientific) | KLB book 1 pages 76Discovering secondary mathematics book 1 page 46Advancing mathematics book 1 page 63Secondary mathematics KIE book 1 page 97-98Golden tips (KCSE) mathematics page 61 |  |
| 6 | Squares And Square Roots | Finding square roots by factorization | By the end of the lesson, the learner should be able to:Find square roots of numbers by factorization | DiscussionsFactorizing numbers Doing short testsDemonstrationsDividing numbers | Mathematical tablesMultiplication tables | Discovering secondary mathematics book 1 page 46-47Secondary mathematics KLB book 1 pages 77Advancing mathematics book 1 page 64-65Secondary mathematics KIE book 1 page 99-101Golden tips (KCSE) mathematics page 62 |  |
| 5 | 1-2 | Squares And Square Roots | Square root tables | By the end of the lesson, the learner should be able to:Read the square root tableRead square roots of numbers 1< A <10 from mathematical tables | Guiding the learner to read square roots from tablesDiscussionsDoing exercises  | Mathematical tablesMultiplication tables | Discovering secondary mathematics book 1 pages 47-48KLB book 1 page 78Advancing mathematics book 1 page 66Secondary mathematics KIE book 1 page 102-103 |  |
| 3-4 | Squares And Square Roots | Square roots of numbers less than one and greater than 100 | By the end of the lesson, the learner should be able to:Get the Square roots of numbers less than one and greater than 100 form their mathematical tables | DiscussionsMathematical tableDoing exercises | Mathematical tablesMultiplication tables | Discovering secondary mathematics book 1 pages 48-49KLB book 1 page 78Advancing mathematics book 1 page 67-68Secondary mathematics KIE book 1 page 102-103 |  |
| 5-6 | Squares And Square Roots | Revision | By the end of the lesson, the learner should be able to:Solve problems involving squares and square roots | DiscussionsIllustrationsDoing exercisesSupervised practice | Mathematical tableCharts | Discovering secondary mathematics book 1 pages 49KLB book 1 page 79Advancing mathematics book 1 page 69-72Secondary mathematics KIE book 1 page 104 |  |
| 6 | 1 | Angles | Measuring and drawing angles | By the end of the lesson, the learner should be able to:Measure and draw an angle using a protractor | DiscussionsDemonstrationMeasuring anglesIllustrations | ProtractorRulerModels of figuresCharts | Discovering secondary mathematics book 1 pages 50-52KLB book 1 page 19757Advancing mathematics book 1 page 173-175Secondary mathematics KIE book 1 page 62 |  |
| 2 | Angles | Types of angles | By the end of the lesson, the learner should be able to:Name and draw different types of angles | DiscussionsDrawing anglesMeasuring anglesNaming angles | ProtractorRulerModels of triangles, rectangles etcCharts | Discovering secondary mathematics book 1 pages 51-52Secondary mathematics KLB students book 1 page 197-198Advancing mathematics book 1 page 175-177Secondary mathematics KIE book 1 page 62-64 |  |
| 3-4 | Angles | Angles on a straight line, vertically opposite angles and angles at a point | By the end of the lesson, the learner should be able to:Identify and draw angles on a line vertically opposite angles and angles at a point | DiscussionsDrawing anglesDoing exercisesNaming angles | ProtractorRulerModels of triangles, rectangles etc | Discovering secondary mathematics book 1 pages 52-54Secondary mathematics KLB students book 1 page 200-201Advancing mathematics book 1 page 177-179Secondary mathematics KIE book 1 page 66-67 |  |
|  | 5-6 | Angles | Parallel lines corresponding alternate and interior angles | By the end of the lesson, the learner should be able to:Identify and draw parallel lines, corresponding alternate and interior angles | DiscussionsDrawing anglesMeasuring anglesIdentifying angles | ProtractorRulerReal objects | Discovering secondary mathematics book 1 pages 55-57Secondary mathematics KLB students book 1 page 206-210Advancing mathematics book 1 page 180-181Secondary mathematics KIE book 1 page 70-72 |  |
| 7 | 1-2 | Polygons | Triangles | By the end of the lesson, the learner should be able to:Define a polygon and identify and draw different triangles. | DiscussionsDrawing trianglesMeasuring AnglesMeasuring lengthsDefinitions | ProtractorRulerModels of different triangles | Discovering secondary mathematics book 1 pages 58-61Secondary mathematics KLB students book 1 page 211Advancing mathematics book 1 page 182-183Secondary mathematics KIE book 1 page 75-76 |  |
|  | 3-4 | Polygons | Interior and exterior angles of a polygons | By the end of the lesson, the learner should be able to:Identify and draw interior and exterior angles of a quadrilateral | DiscussionsDrawing quadrilateralsMeasuring anglesMeasuring lengthsIllustrations | ProtractorRulerStringsReal Objects | Discovering secondary mathematics book 1 pages 63-66Secondary mathematics KLB students book 1 page 212-213Advancing mathematics book 1 page 182-183Secondary mathematics KIE book 1 page 76-77 |  |
|  | 5-6 | Polygons | Quadrilaterals | By the end of the lesson, the learner should be able to:Identify and draw different quadrilaterals | DiscussionsDrawing quadrilateralsMeasuring anglesMeasuring lengths | ProtractorRulerStringsReal Objects | Discovering secondary mathematics book 1 pages 60-63Secondary mathematics KLB students book 1 page 219-220Advancing mathematics book 1 page 185-186Secondary KIE book 1 page 82-83 |  |
| 8 | 1-2 | Length | Units of length | By the end of the lesson, the learner should be able to:State the units of measuring length and express length to a given significant figure | DiscussionsDefinitionsRounding offMeasuring lengthsSolving problems involving units of length | Tape measureRulersStringsMeasuring instruments | Discovering secondary mathematics book 1 pages 67-68Secondary mathematics KLB students book 1 page 110Advancing mathematics book 1 page 100-101Secondary mathematics KIE book 1 page 106 |  |
|  | 3 | Length | Conversion of units of length | By the end of the lesson, the learner should be able to:Convert the units of length | DiscussionsConversions of units of lengthMeasuring length in different unitsSolving problems | Tape measureRulersStringsConversion charts for lengthReal objects | Discovering secondary mathematics book 1 pages 68-71Secondary mathematics KLB students book 1 page 110-112Advancing mathematics book 1 page 100-101Secondary mathematics KIE book 1 page 107-108 |  |
|  | 4 | Length | Perimeter of plain figures | By the end of the lesson, the learner should be able to:Find the perimeter of a plain figure | DiscussionsMeasuring lengthSolving problems | Tape measureRulersStringsConversion charts for lengthReal objects | Discovering secondary mathematics book 1 pages 71-73Secondary mathematics KLB students book 1 page 113-116Advancing mathematics book 1 page 103-104Secondary mathematics KIE book 1 page 109-112 |  |
|  | 5-6 | Length | Circumference | By the end of the lesson, the learner should be able to:Find the circumference of a circle | DiscussionsMeasuring lengthSolving problems on circumferenceDemonstrations | Circular objectsTape measureRulers Strings Conversion charts for length | Discovering secondary mathematics book 1 pages 73-76Secondary mathematics KLB students book 1 page 116-119Advancing mathematics book 1 page 105-106Secondary mathematics KIE book 1 page 116-118 |  |
| 9 | 1-2 | Geometric Constructions | Construction of a perpendicular bisector of a line | By the end of the lesson, the learner should be able to:Use a pair of compasses and ruler only to construct a perpendicular bisector of a line | DiscussionsConstruction of a perpendicular bisector of a lineDrawing shapes | Plane figuresGeometrical setsPolygonal shapesRulerPair of compasses | Discovering secondary mathematics book 1 pages 77-78Secondary mathematics KLB students book 1 page 227Advancing mathematics book 1 page 197-198Secondary KIE book 1 page 153 |  |
|  | 3-4 | Geometric Constructions | Construction of parallel lines | By the end of the lesson, the learner should be able to:Construct parallel lines using a ruler and a set square or at a given distance | DiscussionsConstructionsDemonstrationsMeasuring angles | Set squaresRulerPair of compass | Discovering secondary mathematics book 1 pages 78-79Secondary mathematics KLB students book 1 page 235Advancing mathematics book 1 page 202Secondary mathematics KIE book 1 page 154-155 |  |
|  | 5-6 | Geometric Constructions | Dividing a line proportionally | By the end of the lesson, the learner should be able to:Divide a line proportionally using a ruler and a set square | DiscussionsDividing lines proportionallyDrawing straight linesMeasuring angles and lengths | Set squaresRulerPair of compass | Discovering secondary mathematics book 1 pages 79-80Secondary mathematics KLB students book 1 page 236Advancing mathematics book 1 page 203Secondary mathematics KIE book 1 page 156 |  |
| 10 | 1-2 | Geometric Constructions | Reproducing and bisecting angles | By the end of the lesson, the learner should be able to:Reproduce and bisect an angle | DiscussionsDemonstrationsIllustrationsDrawing angles | RulerPair of compass | Discovering secondary mathematics book 1 page80Secondary mathematics KLB students book 1 page 233Advancing mathematics book 1 page 202Secondary mathematics KIE book 1 page 149-150 |  |
|  | 3-4 | Geometric Constructions | Constructing angles | By the end of the lesson, the learner should be able to:Construct angles at 60 degrees | DiscussionsMeasuring anglesBisecting anglesConstructing anglesSolving problems on construction of angles | RulerPair of compassProtractorReal objects | Discovering secondary mathematics book 1 page 80-82Secondary mathematics KLB students book 1 page 233-234Advancing mathematics book 1 page 201-202Secondary mathematics KIE book 1 page 149-150-151 |  |
|  | 5-6 | Geometric Constructions | Constructing polygons | By the end of the lesson, the learner should be able to:Construct regular and irregular polygons | DiscussionsMeasuring angles and lengthsBisecting anglesConstructing angles | RulerPair of compassProtractorReal objects | Discovering secondary mathematics book 1 page 83-84Secondary mathematics KLB students book 1 page 237-240Advancing mathematics book 1 page 207-208Secondary KIE book 1 page 158-159 |  |
| 11 | 1-2 | Algebraic Expressions | Representing numbers by letters | By the end of the lesson, the learner should be able to:Use letters to represent numbers | DiscussionsDoing exercisesGuessingDemonstrations | CountersGroups of items | Discovering secondary mathematics book 1 page 85-86Secondary mathematics KLB students book 1 page 80-81Advancing mathematics book 1 page 73-74Secondary mathematics KIE book 1 page 47-48 |  |
|  | 3-4 | Algebraic Expressions | Simplifying algebraic expressions | By the end of the lesson, the learner should be able to:Simplify algebraic expressions | DiscussionsDoing exercisesGrouping items togetherAdding objectsMultiplying and dividing | CountersGroups of itemscharts | Discovering secondary mathematics book 1 page 86-88Secondary mathematics KLB students book 1 page 82-84Advancing mathematics book 1 page 74-75Secondary mathematics KIE book 1 page 49-51 |  |
|  | 5 | Algebraic Expressions | Multiplying algebraic expressions | By the end of the lesson, the learner should be able to:Multiply algebraic expressions | DiscussionsSimplification of algebraic expressionsMultiplying algebraic expressionsGrouping like items Doing exercises | Groups of unlike itemsGroups of like items | Discovering secondary mathematics book 1 page 87Secondary mathematics KLB students book 1 page 89Advancing mathematics book 1 page 75Secondary mathematics KIE book 1 page 49-51 |  |
|  | 6 | Algebraic Expressions | Dividing algebraic expressions | By the end of the lesson, the learner should be able to:Divide algebraic expressions | DiscussionsfactorizationGrouping like itemsDoing exercisesPuzzles games | Groups of like items | Discovering secondary mathematics book 1 page 87-88Secondary mathematics KLB students book 1 page 89Advancing mathematics book 1 page 76Secondary mathematics KIE book 1 page 49-51 |  |
| 12 | 1-2 | Algebraic Expressions | Use of brackets in algebraic expressions | By the end of the lesson, the learner should be able to:Use of brackets in algebraic expressions | DiscussionsAddingSubtractingDemonstrationsMatching itemsDividingDoing exercises | Groups of like items/objects | Discovering secondary mathematics book 1 page 88-89Secondary mathematics KLB students book 1 page 85Advancing mathematics book 1 page 77Secondary KIE book 1 page 52-53 |  |
|  | 3-4 | Algebraic Expressions | factorization in algebraic expressions | By the end of the lesson, the learner should be able to:Use factorization in algebraic expressions | DiscussionsFactorizingpuzzlesAddingSubstitutionsDoing exercisesPlaying games | Groups of like items/objects | Discovering secondary mathematics book 1 page 88-91Secondary mathematics KLB students book 1 page 90Advancing mathematics book 1 page 81-83Secondary mathematics KIE book 1 page 57-58 |  |
|  | 5-6 | Algebraic Expressions | Substitution and factorization  | By the end of the lesson, the learner should be able to:Substitute and factorize algebraic expressions | DiscussionsDividingmultiplyingAddingSubtractingSolving puzzlesSubstitutionsDoing exercisesPlaying games | Groups of like items/objects | Discovering secondary mathematics book 1 page 91-94Secondary mathematics KLB students book 1 page 91-92Advancing mathematics book 1 page 80& 84Secondary mathematics KIE book 1 page 59-62 |  |
| 13 | 1-2 | Linear Equations | Solving equations  | By the end of the lesson, the learner should be able to:Solve linear equations in one unknown | DiscussionsDemonstrationsSolving problems on linear equationsPuzzles | Beam balanceSee – sawGames | Secondary mathematics KLB students book 1 page 160-162Advancing mathematics book 1 page 134Secondary mathematics KIE book 1 page 173-174 |  |
|  | 3-4 | Linear Equations | Forming linear equations  | By the end of the lesson, the learner should be able to:Form linear equations | DiscussionsForming linear equationsDemonstrationsDoing exercises | Beam balanceReal life experience | Secondary mathematics KLB students book 1 page 163-168Advancing mathematics book 1 page 139Secondary mathematics KIE book 1 page 176-178 |  |
|  | 5-6 | Linear Equations | Simultaneous equations and forming simultaneous equations  | By the end of the lesson, the learner should be able to:Solve simultaneous equations by substitution and elimination and form simultaneous equations | DiscussionsSolving simultaneous equations by substitution and elimination Forming simultaneous equationsPlaying games | Beam balanceReal life experience | Secondary mathematics KLB students book 1 page 168-169Advancing mathematics book 1 page 137-138Secondary mathematics KIE book 1 page 178-180 |  |
| 14 | **END – TERM EXAMS** |

**MATHEMATICS SCHEMES OF WORK**

**FORM ONE 2016**

**TERM III**

**REFERENCES:**

1. Advancing in Mathematics BK 4 By Longhorn Kenya Publishers
2. Secondary Mathematics BK 4 By KLB
3. Macmillan Secondary Maths BK 2
4. Explore Mathematics

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **WK** | **LSN** | **TOPIC** | **SUB-TOPIC** | **OBJECTIVES** | **L/ACTIVITIES** | **L/T AIDS** | **REFERENCE** | **REMARKS** |
| 1 |  | **REPORTING AND REVISION OF LAST TERMS EXAMS** |  |
| 2 | 1-2 | Coordinates And Graphs | The Cartesian plane | By the end of the lesson, the learner should be able to:Draw and label the Cartesian plane | DiscussionsLabeling the Cartesian planeWriting scaleDrawing the axes of the Cartesian planeReading points from the Cartesian plane | Graph papersSquare boardCartesian planeTypographical mapsRuler | Discovering secondary mathematics Book 1 Pages 103-104Secondary mathematics KLB book 1 pages 182-183Secondary mathematics KIE book 1 page 223-224Advancing in mathematics book 1 pages 161-162 |  |
|  | 3-4 | Coordinates And Graphs | Plotting graphs and linear graphs | By the end of the lesson, the learner should be able to:Plot points on a Cartesian planeRead points on linear graphs on the Cartesian plane | DiscussionsLabeling the Cartesian planeWriting scalePlotting points on the Cartesian planeReading points from the Cartesian planeDrawing axes of a Cartesian plane | Graph papersprotractorSquare boardsChalk boards Grid boardsTypographical mapsRuler | Discovering secondary mathematics Book 1 Pages 1014-108Secondary mathematics KLB book 1 pages 185-186Secondary mathematics KIE book 1 page 226Advancing in mathematics book 1 pages 163-164 |  |
|  | 5-6 | Coordinates And Graphs | Plotting linear graphs and linear equations of lines | By the end of the lesson, the learner should be able to:Plot a linear graphWork out the equation of a line | DiscussionsLabeling the Cartesian planeWriting scalePlotting points on the Cartesian planeReading points from the Cartesian planeDrawing axes of a Cartesian plane | Graph papersprotractorSquare boardsCreo boards Grid boardsTypographical maps | Discovering secondary mathematics Book 1 Pages 108-111Secondary mathematics KLB book 1 pages 185-186Secondary mathematics KIE book 1 page 226Advancing in mathematics book 1 pages 165-166 |  |
| 3 | 1-2 | Coordinates And Graphs | Graphical solutions | By the end of the lesson, the learner should be able to:Solve simultaneous linear equations graphically | DiscussionsWriting scaleLabeling the Cartesian planeSolving linear equations graphicallyIllustrationsDrawing the axes of a Cartesian plane | Graph papersprotractorSquare boardsTypographical mapsRulerGrid boards | Discovering secondary mathematics Book 1 Pages 111-113Secondary mathematics KLB book 1 pages 188-189Secondary mathematics KIE book 1 page 229-232Advancing in mathematics book 1 pages 167-170 |  |
|  | 3-4 | Area | Area of combined and conversion of units of area | By the end of the lesson, the learner should be able to:Define and work out area of combined rectangular shapes Convert units of area fron one form to another | Drawing rectangular shapesWorking out the area of rectanglesDiscussionsSolving problems on conversion of units of area | Regular flat surfacesSquare paper Square boardsRectangular objects | Discovering secondary mathematics Book 1 Pages 114-117Secondary mathematics KLB book 1 pages 123-124Secondary mathematics KIE book 1 page 109Advancing in mathematics book 1 pages 109 |  |
|  | 5-6 | Area | Area of a triangle and rectangle | By the end of the lesson, the learner should be able to:Calculate the area of a triangle and rectangle | DiscussionsMeasuring lengthCalculating the area of a triangle | Triangular flat surfacesSquare paperSquare boardsTriangular objects | Discovering secondary mathematics Book 1 Pages 117-118Secondary mathematics KLB book 1 pages 124-125Secondary mathematics KIE book 1 page 110Advancing in mathematics book 1 pages 109-110 |  |
| 4 | 1-2 | Area | Area of a parallelogram and trapezium | By the end of the lesson, the learner should be able to:Calculate the area of a Parallelogramtrapezium | DiscussionsMeasuring lengthCalculating the area of a parallelogramCalculating the area of a trapezium | Square boardTrapezoidal objectsShapes with a shape of a parallelogram | Discovering secondary mathematics Book 1 Pages 118-121Secondary mathematics KLB book 1 pages 125-126Secondary mathematics KIE book 1 page 110-111Advancing in mathematics book 1 pages 111-113 |  |
|  | 3-4 | Area | Area of a circle | By the end of the lesson, the learner should be able to:Calculate the area of a circle | DiscussionsDemonstrationsMeasuring the radius/diameterCalculating the area of a circle | Circular shapesOr objectsSquare paperSquare board | Discovering secondary mathematics Book 1 Pages 121-123Secondary mathematics KLB book 1 pages 129-132Secondary mathematics KIE book 1 page 123-125Advancing in mathematics book 1 pages 115 |  |
|  | 5-6 | Area | Area of irregular plane | By the end of the lesson, the learner should be able to:Work out the area of an irregular plane figure | DiscussionsDemonstrationsMeasuring lengthEstimating areaConverting units of areas | Irregular objects/shapesSquare paperSquare board | Discovering secondary mathematics Book 1 Pages 123-124Secondary mathematics KLB book 1 pages 111Secondary mathematics KIE book 1 page 115-116Advancing in mathematics book 1 pages 141-142 |  |
| 5 | 1-2 | Area | Surface area of a cuboid | By the end of the lesson, the learner should be able to:Work out the surface area of a cuboid | DiscussionsDemonstrationsMeasuring lengthEstimating areaConverting units of areas | Regular flat shapesSquare paperSquare boardModel cubes and cuboids | Discovering secondary mathematics Book 1 Pages 124-125Secondary mathematics KLB book 1 pages 135Secondary mathematics KIE book 1 page 130Advancing in mathematics book 1 pages 118 |  |
|  | 3-4 | Area | Surface area of a prism | By the end of the lesson, the learner should be able to:Work out the surface area of a prism | DiscussionsDemonstrationsMeasuring lengthEstimating areaConverting units of areas | Regular cylinders and prismsSquare paperSquare boardModel of a prism | Discovering secondary mathematics Book 1 Pages 125-126Secondary mathematics KLB book 1 pages 135-136Secondary mathematics KIE book 1 page 131-132Advancing in mathematics book 1 pages 118 |  |
|  | 5-6 | Area | Surface area of a cylinder | By the end of the lesson, the learner should be able to:Work out the surface area of a cylinder | DiscussionsDemonstrationsMeasuring lengthEstimating areaConverting units of areasDoing exercises | Regular cylinders Square paperSquare boardModel of a cylinder | Discovering secondary mathematics Book 1 Pages 126-128Secondary mathematics KLB book 1 pages 137-138Secondary mathematics KIE book 1 page 131-132Advancing in mathematics book 1 pages 118 |  |
| 6 | 1-2 | Volume & Capacity | Units of volume | By the end of the lesson, the learner should be able to:State the units of volume in cubic units and convert one from another | DiscussionsMeasuring length, width and heightMeasuring volumeCalculating the volume of a cuboid | Equipment for measuring volume | Discovering secondary mathematics Book 1 Pages 129Secondary mathematics KLB book 1 pages 143Secondary mathematics KIE book 1 page 131-136Advancing in mathematics book 1 pages 121 |  |
|  | 3-4 | Volume & Capacity | Volume of cuboids and cylinders | By the end of the lesson, the learner should be able to:Calculate the volume of cuboids and cylinders | DiscussionsDemonstrationsMeasuring lengthsCalculating volume | Cubes, cuboids and cylindersModels of cubes cuboids and cylindersMeasuring instruments for volume | Discovering secondary mathematics Book 1 Pages 130-131Secondary mathematics KLB book 1 pages 143-145Secondary mathematics KIE book 1 page 136-138Advancing in mathematics book 1 pages 121 |  |
|  | 5-6 | Volume & Capacity | Capacity | By the end of the lesson, the learner should be able to:Show the relationship between volume and capacity and solve problems involving volume and capacity | DiscussionsDemonstrationsMeasuring capacityCalculating capacityConverting capacity to volume and vise versa | Measuring instruments for capacity | Discovering secondary mathematics Book 1 Pages 131-133Secondary mathematics KLB book 1 pages 146Secondary mathematics KIE book 1 page 136-138Advancing in mathematics book 1 pages 123-124 |  |
| 7 | 1-2 | Mass, Weight And Density | Units of mass, weight and density | By the end of the lesson, the learner should be able to:Define mass, weight and densityState their units and relate mass weight and density | DiscussionsMeasuringCalculatingConverting  | MassesMeasuring cylindersWeightsSpring balanceBeam balancelactometer | Discovering secondary mathematics Book 1 Pages 134-135Secondary mathematics KLB book 1 pages 149-151Secondary mathematics KIE book 1 page 140-141Advancing in mathematics book 1 pages 126-127 |  |
|  | 3 | Time | Converting units of time | By the end of the lesson, the learner should be able to:Convert the units of time from one form to another | DiscussionsConverting time, eventsCalculating | Clock, WatchesConversion tablesTravel timetable for trains, busses, ships and aero planes | Discovering secondary mathematics Book 1 Pages 136-137Secondary mathematics KLB book 1 pages 153-154Secondary mathematics KIE book 1 page 142Advancing in mathematics book 1 pages 129 |  |
|  | 4-5 | Time | The 12 hour and 24 hour clocks | By the end of the lesson, the learner should be able to:State time in the 12 hour and 24 hour clocks | DiscussionsTiming, eventsReading timeConverting time | Clock, WatchesConversion tablesTravel timetable for trains, busses, ships and aero planes  | Discovering secondary mathematics Book 1 Pages 138-141Secondary mathematics KLB book 1 pages 154-155Secondary mathematics KIE book 1 page 129-130Advancing in mathematics book 1 pages 142 |  |
|  | 6 | Time | Travel timetables | By the end of the lesson, the learner should be able to:Read and interpret travel timetableSolve problems involving travel timetable | DiscussionsSolving problemsReading the travel timetableTravelling | Clock, WatchesConversion tablesTravel timetable for trains, busses, ships and aero planes | Discovering secondary mathematics Book 1 Pages 141-143Secondary mathematics KLB book 1 pages 156-157Advancing in mathematics book 1 pages 131-132 |  |
| 8 | 1-2 | Rate, Ratio, Percentages And Proportion | Rates and ratio | By the end of the lesson, the learner should be able to:Define rate and ratioSolve problems involving ratesUse ratio to compare increase and decrease quantities | DiscussionsSolving problemsSharing things equallyDoing exercisesSharing quantities in given ratio | Real life experienceCurrencyCounters | Discovering secondary mathematics Book 1 Pages 144-151Secondary mathematics KLB book 1 pages 96-98Secondary mathematics KIE book 1 page 162-164Advancing in mathematics book 1 pages 86-88 |  |
|  | 3-4 | Rate, Ratio, Percentages And Proportion | Proportion | By the end of the lesson, the learner should be able to:Change quantities in a given ratio and proportion | DiscussionsDoing exercisesSharing out quantities in a given ratio | CurrencyCountersReal life experience | Discovering secondary mathematics Book 1 Pages 151-153Secondary mathematics KLB book 1 pages 97-102Secondary mathematics KIE book 1 page 165-166Advancing in mathematics book 1 pages 88-93 |  |
|  | 5-6 | Rate, Ratio, Percentages And Proportion | percentages | By the end of the lesson, the learner should be able to:Convert fractions and decimals to percentagesCalculate the percentage change in a quantity | DiscussionsDoing exercises | 100 square grid100 itemsCounters | Discovering secondary mathematics Book 1 Pages 153-157Secondary mathematics KLB book 1 pages 105-106Secondary mathematics KIE book 1 page 169-170Advancing in mathematics book 1 pages 94-97 |  |
| 9 | 1-2 | Commercial Arthimetric | Currency conversion | By the end of the lesson, the learner should be able to:*© Education Plus Agencies*State the currencies of different countries and convert currency from one form to another | DiscussionsSolving problems involving currency exchange ratesGiving change and balance | Actual currency exchange rate tableActual currencyNewspaper/magazine | Discovering secondary mathematics Book 1 Pages 158-162Secondary mathematics KLB book 1 pages 171-173Secondary mathematics KIE book 1 page 208-213Advancing in mathematics book 1 pages 149-152 |  |
|  | 3-4 | Commercial Arthimetric | Profit and loss, Discount and commission | By the end of the lesson, the learner should be able to: | DiscussionsDoing exercisesIllustrationsDemonstrations | Resource personReal lifeRetail shops | Discovering secondary mathematics Book 1 Pages 162-165Secondary mathematics KLB book 1 pages 175-178Secondary mathematics KIE book 1 page 216-218Advancing in mathematics book 1 pages 153-155 |  |
|  | 5-6 | Scale Drawing And Angles Of Elevation And Depression | Indicating scale | By the end of the lesson, the learner should be able to:Read, interpret and indicate scale in linear statement ratio | DiscussionsSolving problemsDrawing to scaleWriting scaleInterpreting scaleDetermining scale | RulerTape measureFigure drawn to scalephotographs | Discovering secondary mathematics Book 1 Pages 116-168Secondary mathematics KLB book 1 pages 248-250Secondary mathematics KIE book 1 page 185Advancing in mathematics book 1 pages 209-210 |  |
| 10 | 1-2 | Scale Drawing And Angles Of Elevation And Depression | Angles of elevation & depression | By the end of the lesson, the learner should be able to:Determine the angles of elevation and depression | DiscussionsDrawing to scaleDoing exercisesSolving problemsMeasuring angles/lengths | RulerTape measureFigure drawn to scalephotographs | Discovering secondary mathematics Book 1 Pages 168-172Secondary mathematics KLB book 1 pages 256-260Secondary mathematics KIE book 1 page 187-192Advancing in mathematics book 1 pages 211 |  |
|  | 3-4 | Scale Drawing And Angles Of Elevation And Depression | Bearing | By the end of the lesson, the learner should be able to:State the bearing of a point from another point | DiscussionsDrawing to scaleMeasuring angles/lengthsSolving problems involving bearings | RulerTape measureProtractorSet squarePlumb line | Discovering secondary mathematics Book 1 Pages 173-175Secondary mathematics KLB book 1 pages 251-252Secondary mathematics KIE book 1 page 193-195Advancing in mathematics book 1 pages 211-213 |  |
|  | 5-6 | Bearing And Surveying | Methods of surveying | By the end of the lesson, the learner should be able to:Apply scale drawing in methods of surveying | DiscussionsDrawing to scaleMeasuring angles/lengthsEstimating area | Geometrical setsClinometersSurveying equipmentProtractorRulerPlayfieldSchool compound | Discovering secondary mathematics Book 1 Pages 176-178Secondary mathematics KLB book 1 pages 262-265Secondary mathematics KIE book 1 page 199-202Advancing in mathematics book 1 pages 213-216 |  |
| 11 | 1-2 | Bearing And Surveying | Area of irregular shapes | By the end of the lesson, the learner should be able to:Determine the area of irregular shapes using surveying techniques | DiscussionsMeasuring lengths/objectsDrawing scaleEstimating are | Geometrical setsClinometersSurveying equipmentProtractorRulerPlayfieldSchool compound | Discovering secondary mathematics Book 1 Pages 178-181Secondary mathematics KLB book 1 pages 267-268Secondary mathematics KIE book 1 page 205-206Advancing in mathematics book 1 pages 216-220 |  |
|  | 3-4 | Common Solids | Regular solids | By the end of the lesson, the learner should be able to:Identify and sketch common solids | DiscussionsCounting sides faces and verticesSketching solids | Models of common solidsActual solids | Discovering secondary mathematics Book 1 Pages 182-185Secondary mathematics KLB book 1 pages 271-276Secondary mathematics KIE book 1 page 248-254Advancing in mathematics book 1 pages 222-227 |  |
|  | 5-6 | Common Solids | Nets of solids | By the end of the lesson, the learner should be able to:Sketch, draw nets of solids and make models of solids from the nets | DiscussionsSketchingDrawing to scaleDrawing accuratelyMaking models | Models of common solidsExamples of the common solids | Discovering secondary mathematics Book 1 Pages 186-188Secondary mathematics KLB book 1 pages 277-283Secondary mathematics KIE book 1 page 255-260Advancing in mathematics book 1 pages 228-229 |  |
| 12 | 1-2 | Common Solids | Surface area of solids | By the end of the lesson, the learner should be able to: Calculate the surface area of solid from nets | DiscussionsSketchingMaking modelsDrawing to scale | Models of common solidsActual solids | Discovering secondary mathematics Book 1 Pages 188-189Secondary mathematics KLB book 1 pages 284-285Secondary mathematics KIE book 1 page 264-265Advancing in mathematics book 1 pages 230-231 |  |
|  | 3-4 | Common Solids | Distance between two points on the surface area of solid | By the end of the lesson, the learner should be able to: Determine the distance between two points on the surface of a solid | DiscussionsSketchingMaking modelsDrawing to scaleMeasuring lengths/angles | Sketches of cubes and cuboidscharts | Discovering secondary mathematics Book 1 Pages 189-191Secondary mathematics KLB book 1 pages 286-288Advancing in mathematics book 1 pages 231-233 |  |
|  | 5-6 | **END YEAR EXAMINATIONS** |