**[MATHEMATICS](http://teacher.co.ke)**

**[Term One Form One](http://teacher.co.ke)**

|  |  |  |  |  |  |  |  |  |
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| **Week** | **Lesson** | **Topic** | **Sub-topic** | **L/T Objectives** | **L/T Activities** | **L/T Resources** | **References** | **Remarks** |
| 1-4 | [**FORM ONE SELECTION, ADMISSION AND INDUCTION**](http://teacher.co.ke) |  |
| Week 5 | 1-2 | Natural numbers | Place value of numbers | By the end of the lesson learners should be able to:1. Identify, read and write natural numbers in figures and words.
2. Determine the place value of digit given a number
 | * + Identifying natural numbers by oral practice.
	+ Writing numbers in figures and in words
 | * + Chalkboard
	+ Charts illustrating place value
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg 1
	+ Discovering secondary math Bk 1 pg 1-4
	+ Secondary math by KLB pg 1-12
 |  |
| 3  | Natural numbers | Even, odd and prime numbers, Rounding off of numbers | By the end of the lesson learners should be able to:1. Classify natural numbers as odd, even, or prime.
2. Round off numbers to nearest tens, hundreds, thousands etc.
 | * Classify natural numbers as odd, even, or prime.
* Rounding off numbers to the nearest tens, hundreds, thousands etc.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg 1
	+ Discovering secondary math Bk 1 pg 1-4
	+ Secondary math by KLB pg 1-12
 |  |
| 4 | Natural numbers | Operations of numbers | By the end of the lesson learners should be able to:1. Carry out addition, subtraction, division and multiplication of numbers
2. Identify dividend, quotient and divisor in division
3. Apply the knowledge of operations in real life situations
 | * Discuss example on addition, subtraction, multiplication and division.
* Do exercises on word problems involving the operations and how they apply in real life situations
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg 1
	+ Discovering secondary math Bk 1 pg 1-4
	+ Secondary math by KLB pg 4
 |  |
| 5 | Factors | Factors of composite numbers expressed in power form. | By the end of the lesson learners should be able to:* + 1. Carry out prime factorization of composite numbers
		2. Identify factors of composite numbers and express them in prime factors
 | * Oral listing of prime factors.
* Solving problems involving factors of composite numbers
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg 7
	+ Discovering secondary math Bk 1 pg 4-5
	+ Secondary math by KLB pg 10
 |  |
| 6 | Factors | Factors of composite numbers expressed in power form. | By the end of the lesson learners should be able to:* + 1. Express numbers in prime factor form using powers.
 | * Discussions.
* Solving problems involving factors of composite numbers
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg 8
	+ Discovering secondary math Bk 1 pg 4-5
	+ Secondary math by KLB pg 10
 |  |
| Week 6 | 1-2 | Divisibility tests | Divisibility tests of numbers by 2, 3, 4, 5 | By the end of the lesson learners should be able to test the divisibility of numbers by 2, 3, 4, and 5.  | * Discussions.
* Solving problems involving divisibility tests of numbers by 2, 3, 4, and 5.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg 10-11
	+ Discovering secondary math Bk 1 pg 10
	+ Secondary math by KLB pg 12-20
 |  |
| 3 | Divisibility tests | Divisibility tests of numbers by 6, 8, 9, 10 and 11 | By the end of the lesson learners should be able to test the divisibility of numbers by 6, 8, 9, 10, and 11.  | * Discussions.

Solving problems involving divisibility tests of numbers by 6, 8, 9, 10, and 11.  | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg10-11
	+ Discovering secondary math Bk 1 pg 10
	+ Secondary math by KLB pg 12-20
 |  |
| 4 | Greatest common divisor (GCD) | GCD of a set of numbers | By the end of the lesson learners should be able to find the GCD of a set of numbers and apply the GCD in real life situations.  | * Discussions.
* Solving problems involving GCD of a set of numbers.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg13
	+ Discovering secondary math Bk 1 pg 10-11
	+ Secondary math by KLB pg 22
 |  |
| 5 | Least common multiples (LCM) | Multiples of numbers  | By the end of the lesson learners should be able to list multiples of numbers.  | * Discussions.
* Working out examples involving multiples of numbers
* Solving problems involving multiples of numbers.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg10-11
	+ Discovering secondary math Bk 1 pg 10
	+ Secondary math by KLB pg 24
 |  |
| 6 | Least common multiples (LCM) | Multiples of a set of numbers | By the end of the lesson learners should be able to work out the LCM of a set of numbers and apply the concept of LCM in real life situations.  | * Discussions.
* Solving problems involving common multiples for a set of numbers.
 | * + Chalkboard
	+ Charts illustrating worked examples showing even numbers odd numbers and prime numbers.
	+ Multiplication tables
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg10-11
	+ Discovering secondary math Bk 1 pg 10
	+ Secondary math by KLB pg 1
 |  |
| Week 7 | 1-2 | Integers | Integers | By the end of the lesson learners should be able to define integers and read them from the number line. | * Discussions.
* Drawing the number line
* Reading the numbers from the number line
 | * + Chalkboard
	+ Chart illustrating the number line
	+ Number line
	+ Staircases
	+ Ladder
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg18-19
	+ Discovering secondary math Bk 1 pg 14
	+ Secondary math by KLB pg 28
 |  |
| 3 | Integers | Addition and subtraction ofIntegers | By the end of the lesson learners should be able to use the number line and solve problems in addition and subtraction.  | * Discussions.
* Solving addition and subtraction problems involving integers using the number line.
 | * + Chalkboard
	+ Chart illustrating the number line
	+ Number line
	+ Staircases
	+ Ladder
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg18-19
	+ Discovering secondary math Bk 1 pg 14
	+ Secondary math by KLB pg 28
 |  |
| 4 | Integers | Directed numbers | By the end of the lesson learners should be able to identify and locate directed numbers on the number line. | * Discussions on the concept of increasing and decreasing of numbers.
* Locating +ve and –ve numbers on the number line.
 | * + Chalkboard
	+ Chart illustrating the number line
	+ Number line
	+ Staircases
	+ Ladder
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg19-20
	+ Discovering secondary math Bk 1 pg 14
	+ Secondary math by KLB pg 29
 |  |
| 5 | Integers | Further addition of integers using the number line | By the end of the lesson learners should be able to use the number line and solve problems in addition | * Discussions.
* Solving problems involving addition of integers
 | * + Chalkboard
	+ Chart illustrating the number line
	+ Number line
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg19-20
	+ Discovering secondary math Bk 1 pg 16-20
	+ Secondary math by KLB pg 29
 |  |
| 6 | Integers | Subtraction of negative integers using the number line.  | By the end of the lesson learners should be able to use the number line and solve problems in subtraction. | * Discussions.
* Solving problems involving subtraction of integers
 | * + Chalkboard
	+ Chart illustrating the number line
	+ Number line
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg20-23
	+ Discovering secondary math Bk 1 pg 16-20
	+ Secondary math by KLB pg 30
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| Week 8 | 1-2 | Integers | Multiplication of integers | By the end of the lesson learners should be able to carry out multiplication of integers | * Discussions.
* Solving problems involving multiplication of integers
 | * + Chalkboard
	+ Chart on multiplication of numbers
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg24-25
	+ Discovering secondary math Bk 1 pg 20-22
	+ Secondary math by KLB pg 30
 |  |
| 3 | Integers | Division of integers | By the end of the lesson learners should be able to carry out division of integers | * Discussions.
* Solving problems involving division of integers
 | * + Chalkboard
	+ Division table.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg25
	+ Discovering secondary math Bk 1 pg 20-22
	+ Secondary math by KLB pg 31-40
 |  |
| 4 | Integers | Order of operations including brackets | By the end of the lesson learners should be able to carry out mixed operations  | * Discussions on the use of BODMAS.
* Solving problems involving mixed operations of integers
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg25-29
	+ Discovering secondary math Bk 1 pg 20-22
	+ Secondary math by KLB pg 45
 |  |
| 5 | Integers | Real life situations | By the end of the lesson learners should be able to apply the knowledge of integers in solving problems of real life situations. | * Discussions on the use of BODMAS.
* Solving problems involving real life situations
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg30-35
	+ Discovering secondary math Bk 1 pg 20-22
	+ Secondary math by KLB pg 54
 |  |
| 6 | Fractions | Definition of fraction | By the end of the lesson learners should be able to define fraction. | * Discussions.
* Working out examples involving fractions

  | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg36
	+ Discovering secondary math Bk 1 pg 23-24
	+ Secondary math by KLB pg 41
 |  |
| Week 9 | 1-2 | Fractions | Comparing the ordering fractions in sizes | By the end of the lesson learners should be able to: 1. compare fractions and order them in sizes
2. identify equivalent fractions
3. rank fractions according to their sizes
 | * Discussions.
* Working out examples involving fractions
* Solving problems involving fractions
* Splitting items into fractions
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg38
	+ Discovering secondary math Bk 1 pg 24
	+ Secondary math by KLB pg 41
 |  |
| 3 | Fractions | Addition and subtraction of fractions | By the end of the lesson learners should be able to add and subtract fractions | * Discussions.
* Working out examples involving fractions of numbers
* Solving problems involving additions and subtractions of fractions

  | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg41
	+ Discovering secondary math Bk 1 pg 26-27
	+ Secondary math by KLB pg 45
 |  |
| 4 | Fractions | Multiplication, inverses and divisions of fractions | By the end of the lesson learners should be able to:1. Multiply fractions
2. Divide fractions.
3. State and use inverses of fractions
 | * Discussions.
* Working out examples involving multiplication of fractions
* Divisions of fractions
* Inverses of fractions
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg45
	+ Discovering secondary math Bk 1 pg 27-29
	+ Secondary math by KLB pg 46
 |  |
| 5 | Fractions  | Order of operations and real life situations | By the end of the lesson learners should be able to:a) Multiply fractionsb) Divide fractions.c) State and use inverses of fractions.d) apply the knowledge of fraction in real life situations | * Discussions.
* Working out examples involving fractions
* Solving problems involving real life situations in fractions
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg46
	+ Discovering secondary math Bk 1 pg 29-31
	+ Secondary math by KLB pg 54
 |  |
| 6 | Decimals | Definitions of decimal, place values of decimal | By the end of the lesson learners should be able to: a) identify a decimalb) state the place value of each digit in a decimalc) state the decimal places in a decimal. | * Discussions.
* Working out examples involving decimals
* Solving problems involving decimals and their place values
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg48
	+ Discovering secondary math Bk 1 pg 32-34
	+ Secondary math by KLB pg 58
 |  |
| Week 10 | 1-2 | Decimals | Addition and subtraction of decimals | By the end of the lesson learners should be able to carry out both additions and subtractions in decimals | * Working out examples involving additions and subtractions of decimals
* Solving problems involving additions and subtractions of decimals
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg49
	+ Discovering secondary math Bk 1 pg 32-34
	+ Secondary math by KLB pg 58
 |  |
| 3 | Decimals | Multiplication and division of decimals | By the end of the lesson learners should be able to carry out multiplication and divisions of decimals by powers of 10 | * Discussions.
* Working out examples involving multiplication and divisions of decimals by powers of 10
* Solving problems involving multiplication and divisions of decimals by powers of 10
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg51
	+ Discovering secondary math Bk 1 pg 32-34
	+ Secondary math by KLB pg 58
 |  |
| 4 | Decimals  | Standard form of numbers | By the end of the lesson learners should be able to express any given number in standard form and vice versa. | * Discussions.
* Working out examples involving multiplication and divisions of decimals by powers of 10
* Solving problems involving multiplication and divisions of decimals by powers of 10.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg51
	+ Discovering secondary math Bk 1 pg 32-34
	+ Secondary math by KLB pg 64
 |  |
| 5 | Decimals  | Rounding off of decimals | By the end of the lesson learners should be able to round off a decimal to a given accuracy  | * Discussions.
* Working out examples involving rounding off of decimals
* Solving problems involving rounding off of decimals
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg56-57
	+ Discovering secondary math Bk 1 pg 32-34
	+ Secondary math by KLB pg 63
 |  |
| 6 | Decimals  | Changing from fraction to decimals and vice versa | By the end of the lesson learners should be able to change fractions to decimals and vice versa | * Discussions.
* Working out examples involving multiples of numbers
* Solving problems involving multiples of numbers.

  | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg56-57
	+ Discovering secondary math Bk 1 pg 32-34
	+ Secondary math by KLB pg 58
 |  |
| Week 11 | 1-2 | Decimals | Recurring decimals | By the end of the lesson learners should be able to change form recurring decimals to fractions | * Discussions.
* Working out examples involving multiples of numbers
* Solving problems involving multiples of numbers.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg57
	+ Discovering secondary math Bk 1 pg 35-37
	+ Secondary math by KLB pg 61
 |  |
| 3 | Decimals | Real life problems in decimals | By the end of the lesson learners should be able to solve problems in real life situations. | * Discussions.
* Working out examples involving multiples of numbers
* Solving problems involving multiples of numbers.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg60
	+ Discovering secondary math Bk 1 pg 38-43
	+ Secondary math by KLB pg 65
 |  |
| 4 | Squares and square roots | Squares of numbers | By the end of the lesson learners should be able to find squares of numbers by multiplication | * Discussions.
* Working out examples involving squares of numbers
* Solving problems involving squares of numbers
 | * + Chalkboard
	+ Chart with numbers and their squares
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg61
	+ Discovering secondary math Bk 1 pg 45
	+ Secondary math by KLB pg 73
 |  |
| 5 | Squares and square roots | Squares of numbers greater than 10 | By the end of the lesson learners should be able to find squares of numbers greater than 10 using tables. | * Discussions.
* Working out examples involving squares of numbers
* Solving problems involving squares of numbers.
 | * + Chalkboard
	+ Chart with numbers and their squares.
	+ Lesson notes
	+ Mathematical tables
	+ Class textbook.
 | * + Advancing math Bk 1 pg61.
	+ Discovering secondary math Bk 1 pg 46
	+ Secondary math by KLB pg 73
 |  |
| 6 | Squares and square roots | Squares of numbers less than 1 | By the end of the lesson learners should be able to find squares of numbers less than 1 using tables. | * Discussions.
* Working out examples involving squares of numbers
* Solving problems involving squares of numbers
 | * + Chalkboard
	+ Chart with numbers and their squares.
	+ Mathematical tables
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg62
	+ Discovering secondary math Bk 1 pg 46-47
	+ Secondary math by KLB pg 74
 |  |
| Week 12 | 1-2 | Squares and square roots | Real life problems dealing with squares of numbers | By the end of the lesson learners should be able to solve real life problems dealing with squares of numbers | * Discussions.
* Working out examples involving multiples of numbers
* Solving real life problems dealing with squares of numbers
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg64
	+ Discovering secondary math Bk 1 pg 47-47
	+ Secondary math by KLB pg 76
 |  |
| 3 | Squares and square roots | Finding square root by factorization | By the end of the lesson learners should be able to find square roots of numbers by factorization | * Discussions.
* Working out examples involving square roots by factorization method
* Solving problems involving square roots.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes

Class textbook. | * + Advancing math Bk 1 pg10-11
	+ Discovering secondary math Bk 1 pg 10

Secondary math by KLB pg 76 |  |
| 4 | Squares and square roots | Reading of square root tables | By the end of the lesson learners should be able to distinguish between the two pages of square root tables and use the appropriate one. | * Discussions.
* Working out examples involving multiples of numbers
* Solving problems involving multiples of numbers.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Square root tables.

Class textbook. | * + Advancing math Bk 1 pg10-11
	+ Discovering secondary math Bk 1 pg 10

Secondary math by KLB pg 78 |  |
| 5 | Squares and square roots | Square roots of numbers between 1 and 10 | By the end of the lesson learners should be able to use the square root table to work out squares of numbers between 1 and 10 | * Discussions.
* Working out examples involving multiples of numbers
* Solving problems involving multiples of numbers.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Square root tables.

Class textbook. | * + Advancing math Bk 1 pg10-11
	+ Discovering secondary math Bk 1 pg 10

Secondary math by KLB pg 78 |  |
| 6 | Squares and square roots | Square roots of numbers between 10 and 100 | By the end of the lesson learners should be able to use the square root table to work out squares of numbers between 10 and 100 | * Discussions.
* Working out examples involving multiples of numbers
* Solving problems involving multiples of numbers.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Square root tables.

Class textbook. | * + Advancing math Bk 1 pg10-11
	+ Discovering secondary math Bk 1 pg 10

Secondary math by KLB pg 78 |  |
| 13 | REVISION AND END-OF- TERM I EXAMINATIONS |  |

TERM 2

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Week 1 | 1-2 | Algebraic expressions and functions | Symbolic representation of terms, coefficients variables and constants | By the end of the lesson learners should be able to:1. Use letters to represent numbers
2. Identify the terms coefficients, variables and constants
3. Write word statements from algebraic symbols.
 | * + Explain the use of letters to represent values
	+ Oral exercises on use of letters
	+ Give examples on the use of letters
	+ Practice word statements
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg73
	+ Discovering secondary math Bk 1 pg 85-86
	+ Secondary math by KLB pg 80
 |  |
| 3 | Algebraic expressions and functions | Simplifying algebraic expressions and forming them | By the end of the lesson learners should be able to:a) identify like and unlike termsb) collect terms together and simplifyc) form algebraic expressions from given statements | * + Putting like terms together
	+ Simplifying the expressions
	+ Doing exercises on forming the expressions
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg76-80
	+ Discovering secondary math Bk 1 pg 87
	+ Secondary math by KLB pg 81
 |  |
| 4 | Algebraic expressions and functions | Multiplication and division with algebraic terms with use of Brackets | By the end of the lesson learners should be able to:1. Multiply and divide with algebraic terms
2. Remove brackets in algebraic expressions
 | * + Multiplying and dividing with algebraic terms
	+ Doing practice on removing of brackets.
* Working out examples involving algebraic expressions
	+ Solving problems involving algebraic expressions
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg74-76
	+ Discovering secondary math Bk 1 pg 86-88
	+ Secondary math by KLB pg 82
 |  |
| 5 | Algebraic expressions and functions | Factorization | By the end of the lesson learners should be able to factorize an algebraic expression by grouping. | * + Use Q/A method to identify common factors
	+ Grouping and factoring
	+ Solving problems involving factorization
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg80
	+ Discovering secondary math Bk 1 pg 85-94
	+ Secondary math by KLB pg 89
 |  |
| 6 | Algebraic expressions and functions | Algebraic fractions | By the end of the lesson learners should be able to:1. Reduce an algebraic expression to its lowest form accurately
2. Perform the four basic operations on the algebraic expressions.
 | * Discussions.
* Working out examples involving fractions in algebraic expressions
* Solving problems involving fractions in algebraic expressions.
* Carrying out the four basic operations.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg81
	+ Discovering secondary math Bk 1 pg 85-91
	+ Secondary math by KLB pg 90
 |  |
| Week 2 | 1-2 | Algebraic expressions and functions | Algebraic fractions involving brackets | By the end of the lesson learners should be able to simplify an algebraic expression completely | * Discussions.
* Working out examples involving fractions in algebraic expressions
* Solving problems involving fractions in algebraic expressions with brackets
* Carrying out the four basic operations.

  | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg83
	+ Discovering secondary math Bk 1 pg 85-91
	+ Secondary math by KLB pg 91
 |  |
| 3 | Algebraic expressions and functions | Substitution and evaluation | By the end of the lesson learners should be able to substitute and evaluate an algebraic expression accurately.  | * Discussions.
* Working out examples involving algebraic expressions.
* Solving problems involving substitution and evaluation of algebraic expressions.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 84
	+ Discovering secondary math Bk 1 pg 91-94
	+ Secondary math by KLB pg 92
 |  |
| 4 | Algebraic expressions and functions | evaluating algebraic expressions by substitution | By the end of the lesson learners should be able to evaluate algebraic expressions | * Discussions.
* Working out examples involving algebraic expressions.
	+ Solving problems involving evaluating algebraic expressions
	+ Group work.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 85
	+ Discovering secondary math Bk 1 pg 91-94
	+ Secondary math by KLB pg92
 |  |
| 5 | Algebraic expressions and functions |  Algebraic expressions in real life situations | By the end of the lesson learners should be able to solve problems in real life situations. | * + Discussions
	+ Demonstrations
	+ Working out examples on Algebraic expressions and functions
	+ Solving problems on Algebraic expressions and functions
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 85
	+ Discovering secondary math Bk 1 pg 91-94
	+ Secondary math by KLB pg 93
 |  |
| 6 | Rate, ratios, proportions and percentages | Rates | By the end of the lesson learners should be able to:1. Define the term rate
2. Solve problems involving rates
 | * + Discussions
	+ Demonstrations
	+ Working out examples on rates
	+ Solving problems on rates
	+ Group Work.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 86
	+ Discovering secondary math Bk 1 pg 144-146
	+ Secondary math by KLB pg 96
 |  |
| Week 3 | 1-2 | Rate, ratios, proportions and percentages | Ratio and proportion | By the end of the lesson learners should be able to:* + 1. explain what a ratio is
		2. Solve problems involving ratios
 | * + Discussions
	+ Demonstrations
	+ Working out examples on ratios
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 87
	+ Discovering secondary math Bk 1 pg 146-151
	+ Secondary math by KLB pg 96
 |  |
| 3 | Rate, ratios, proportions and percentages | Changing different ratios | By the end of the lesson learners should be able to change quantities in a given ratio | * + Discussions
	+ Demonstrations
	+ Working out examples on changing ratio.
	+ Solving problems on changing of ratios
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 89
	+ Discovering secondary math Bk 1 pg 151-153
	+ Secondary math by KLB pg97
 |  |
| 4 | Rate, ratios, proportions and percentages | sharing | By the end of the lesson learners should be able to share quantities in given ratios | * + Discussions
	+ Demonstrations
	+ Working out examples on sharing quantities in given ratios
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 90
	+ Discovering secondary math Bk 1 pg 151-153
	+ Secondary math by KLB pg 97-98
 |  |
| 5 | Rate, ratios, proportions and percentages | Direct proportions and inverse proportions | By the end of the lesson learners should be able to:* + 1. Differentiate between direct proportions and inverse proportions
		2. Solve problems involving direct proportions and inverse proportions
 | * + Discussions
	+ Demonstrations
	+ Working out examples on
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 91-94
	+ Discovering secondary math Bk 1 pg 91-94
	+ Secondary math by KLB pg 102
 |  |
| 6 | Rate, ratios, proportions and percentages | Percentages | By the end of the lesson learners should be able to:a) explain what a percentage isb) express one quantity as a percentage of anotherc) solve problems involving percentages | * + Discussions
	+ Demonstrations
	+ Working out examples on
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg94
	+ Discovering secondary math Bk 1 pg 153-157
	+ Secondary math by KLB pg 105
 |  |
| Week 4 | 1-2 | Rate, ratios, proportions and percentages | Comparing ratios | By the end of the lesson learners should be able to compare two given sets of ratios. | * + Discussions
	+ Demonstrations
	+ Working out examples on comparing different ratios
	+ Solving problems using fractions, decimals & %ages.
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg98
	+ Discovering secondary math Bk 1 pg 157
	+ Secondary math by KLB pg 100
 |  |
| 3 |  Length | Units of length | By the end of the lesson learners should be able to:* + 1. State the SI unit of measuring length
		2. Make accurate conversions between units of length
 | * + Discussions
	+ Demonstrations
	+ Working out examples on lengths
	+ Solving problems of conversion
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 100
	+ Discovering secondary math Bk 1 pg 66
	+ Secondary math by KLB pg 111
 |  |
| 4 | Length | Significant figures | By the end of the lesson learners should be able to state accuracy to a given number of significant figures | * + Discussions
	+ Demonstrations
	+ Working out examples on lengths
	+ Solving problems of conversion
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 102
	+ Discovering secondary math Bk 1 pg 67-68
	+ Secondary math by KLB pg 111
 |  |
| 5 | Length | Perimeter of plane shapes | By the end of the lesson learners should be able to find perimeter of plane figures (Regular and irregular) | * + Discussions
	+ Demonstrations
	+ Working out examples on
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 103
	+ Discovering secondary math Bk 1 pg67-68
	+ Secondary math by KLB pg 113
 |  |
| 6 | Area  | Units of area | By the end of the lesson learners should be able to state correct SI units of calculating area | * + Discussions
	+ Demonstrations
	+ Working out examples on calculation of area.
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg109
	+ Discovering secondary math Bk 1 pg 114-115
	+ Secondary math by KLB pg123
 |  |
| Week 5 | 1-2 | Area | Area of triangle and of parallelogram | By the end of the lesson learners should be able to calculate the area of triangle and of parallelogram | * + Discussions
	+ Demonstrations
	+ Working out examples on areas of triangle and of parallelogram.
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 111
	+ Discovering secondary math Bk 1 pg 118-119
	+ Secondary math by KLB pg124
 |  |
| 3 | Area  | Area of trapezium | By the end of the lesson learners should be able to work out area of a trapezium  | * + Discussions
	+ Demonstrations
	+ Working out examples on area of trapezium
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 113
	+ Discovering secondary math Bk 1 pg 119-121
	+ Secondary math by KLB pg 124
 |  |
| 4 | Area | Area of circle | By the end of the lesson learners should be able to work out area of a circle and area of parts of a circle | * + Discussions
	+ Demonstrations
	+ Working out examples on
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 113
	+ Discovering secondary math Bk 1 pg 119-121
	+ Secondary math by KLB pg 129
 |  |
| 5 | Area  | Surface area of cube and of cuboid | By the end of the lesson learners should be able to compute the surface area of a cube and of cuboids | * + Discussions
	+ Demonstrations
	+ Working out examples on
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 118-119
	+ Discovering secondary math Bk 1 pg 124
	+ Secondary math by KLB pg 143
 |  |
| 6 | Algebraic expressions and functions | Algebraic fractions involving brackets | By the end of the lesson learners should be able to simplify an algebraic expression completely | * Discussions.
* Working out examples involving fractions in algebraic expressions
* Solving problems involving fractions in algebraic expressions with brackets
* Carrying out the four basic operations.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg83
	+ Discovering secondary math Bk 1 pg 85-91
	+ Secondary math by KLB pg 91
 |  |
| Week 6 | 1-2 | Algebraic expressions and functions | Substitution and evaluation | By the end of the lesson learners should be able to substitute and evaluate an algebraic expression accurately.  | * Discussions.
* Working out examples involving algebraic expressions.
* Solving problems involving substitution and evaluation of algebraic expressions.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 84
	+ Discovering secondary math Bk 1 pg 91-94
	+ Secondary math by KLB pg 92
 |  |
| 3 | Algebraic expressions and functions | evaluating algebraic expressions by substitution | By the end of the lesson learners should be able to evaluate algebraic expressions | * Discussions.
* Working out examples involving algebraic expressions.
	+ Solving problems involving evaluating algebraic expressions
	+ Group work.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 85
	+ Discovering secondary math Bk 1 pg 91-94
	+ Secondary math by KLB pg92
 |  |
| 4 | Algebraic expressions and functions |  Algebraic expressions in real life situations | By the end of the lesson learners should be able to solve problems in real life situations. | * + Discussions
	+ Demonstrations
	+ Working out examples on Algebraic expressions and functions
	+ Solving problems on Algebraic expressions and functions
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 85
	+ Discovering secondary math Bk 1 pg 91-94
	+ Secondary math by KLB pg 93
 |  |
| 5 | Rate, ratios, proportions and percentages | Rates | By the end of the lesson learners should be able to:1. Define the term rate
2. Solve problems involving rates
 | * + Discussions
	+ Demonstrations
	+ Working out examples on rates
	+ Solving problems on rates
	+ Group Work.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 86
	+ Discovering secondary math Bk 1 pg 144-146
	+ Secondary math by KLB pg 96
 |  |
| 6 | Rate, ratios, proportions and percentages | Ratio and proportion | By the end of the lesson learners should be able to:* + 1. explain what a ratio is
		2. Solve problems involving ratios
 | * + Discussions
	+ Demonstrations
	+ Working out examples on ratios
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 87
	+ Discovering secondary math Bk 1 pg 146-151
	+ Secondary math by KLB pg 96
 |  |
| Week 7 | 1-2 | Rate, ratios, proportions and percentages | Changing different ratios | By the end of the lesson learners should be able to change quantities in a given ratio | * + Discussions
	+ Demonstrations
	+ Working out examples on changing ratio.
	+ Solving problems on changing of ratios
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 89
	+ Discovering secondary math Bk 1 pg 151-153
	+ Secondary math by KLB pg97
 |  |
| 3 | Rate, ratios, proportions and percentages | sharing | By the end of the lesson learners should be able to share quantities in given ratios | * + Discussions
	+ Demonstrations
	+ Working out examples on sharing quantities in given ratios
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 90
	+ Discovering secondary math Bk 1 pg 151-153
	+ Secondary math by KLB pg 97-98
 |  |
| 4 | Rate, ratios, proportions and percentages | Direct proportions and inverse proportions | By the end of the lesson learners should be able to:* + 1. Differentiate between direct proportions and inverse proportions
		2. Solve problems involving direct proportions and inverse proportions
 | * + Discussions
	+ Demonstrations
	+ Working out examples on
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 91-94
	+ Discovering secondary math Bk 1 pg 91-94
	+ Secondary math by KLB pg 102
 |  |
| 5 | Rate, ratios, proportions and percentages | Percentages | By the end of the lesson learners should be able to:a) explain what a percentage isb) express one quantity as a percentage of anotherc) solve problems involving percentages | * + Discussions
	+ Demonstrations
	+ Working out examples on
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg94
	+ Discovering secondary math Bk 1 pg 153-157
	+ Secondary math by KLB pg 105
 |  |
| 6 | Rate, ratios, proportions and percentages | Comparing ratios | By the end of the lesson learners should be able to compare two given sets of ratios. | * + Discussions
	+ Demonstrations
	+ Working out examples on comparing different ratios
	+ Solving problems using fractions, decimals & %ages.
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg98
	+ Discovering secondary math Bk 1 pg 157
	+ Secondary math by KLB pg 100
 |  |
| Week 8 | 1-2 |  Length | Units of length | By the end of the lesson learners should be able to:* + 1. State the SI unit of measuring length
		2. Make accurate conversions between units of length
 | * + Discussions
	+ Demonstrations
	+ Working out examples on lengths
	+ Solving problems of conversion
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 100
	+ Discovering secondary math Bk 1 pg 66
	+ Secondary math by KLB pg 111
 |  |
| 3 | Length | Significant figures | By the end of the lesson learners should be able to state accuracy to a given number of significant figures | * + Discussions
	+ Demonstrations
	+ Working out examples on lengths
	+ Solving problems of conversion
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 102
	+ Discovering secondary math Bk 1 pg 67-68
	+ Secondary math by KLB pg 111
 |  |
| 4 | Length | Perimeter of plane shapes | By the end of the lesson learners should be able to find perimeter of plane figures (Regular and irregular) | * + Discussions
	+ Demonstrations
	+ Working out examples on
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 103
	+ Discovering secondary math Bk 1 pg67-68
	+ Secondary math by KLB pg 113
 |  |
| 5 | Area  | Units of area | By the end of the lesson learners should be able to state correct SI units of calculating area | * + Discussions
	+ Demonstrations
	+ Working out examples on calculation of area.
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg109
	+ Discovering secondary math Bk 1 pg 114-115
	+ Secondary math by KLB pg123
 |  |
| 6 | Area | Area of triangle and of parallelogram | By the end of the lesson learners should be able to calculate the area of triangle and of parallelogram | * + Discussions
	+ Demonstrations
	+ Working out examples on areas of triangle and of parallelogram.
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 111
	+ Discovering secondary math Bk 1 pg 118-119
	+ Secondary math by KLB pg124
 |  |
| Week 9 | 1-2 | Area  | Area of trapezium | By the end of the lesson learners should be able to work out area of a trapezium  | * + Discussions
	+ Demonstrations
	+ Working out examples on area of trapezium
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 113
	+ Discovering secondary math Bk 1 pg 119-121
	+ Secondary math by KLB pg 124
 |  |
| 3 | Area | Area of circle | By the end of the lesson learners should be able to work out area of a circle and area of parts of a circle | * + Discussions
	+ Demonstrations
	+ Working out examples on
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 113
	+ Discovering secondary math Bk 1 pg 119-121
	+ Secondary math by KLB pg 129
 |  |
| 4 | Area  | Surface area of cube and of cuboid | By the end of the lesson learners should be able to compute the surface area of a cube and of cuboids | * + Discussions
	+ Demonstrations
	+ Working out examples on
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 118-119
	+ Discovering secondary math Bk 1 pg 124
	+ Secondary math by KLB pg 143
 |  |
| 5 | Algebraic expressions and functions | Algebraic fractions involving brackets | By the end of the lesson learners should be able to simplify an algebraic expression completely | * Discussions.
* Working out examples involving fractions in algebraic expressions
* Solving problems involving fractions in algebraic expressions with brackets
* Carrying out the four basic operations.

  | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg83
	+ Discovering secondary math Bk 1 pg 85-91
	+ Secondary math by KLB pg 91
 |  |
| 6 | Algebraic expressions and functions | Substitution and evaluation | By the end of the lesson learners should be able to substitute and evaluate an algebraic expression accurately.  | * Discussions.
* Working out examples involving algebraic expressions.
* Solving problems involving substitution and evaluation of algebraic expressions.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 84
	+ Discovering secondary math Bk 1 pg 91-94
	+ Secondary math by KLB pg 92
 |  |
| Week 10 | 1-2 | Algebraic expressions and functions | evaluating algebraic expressions by substitution | By the end of the lesson learners should be able to evaluate algebraic expressions | * Discussions.
* Working out examples involving algebraic expressions.
	+ Solving problems involving evaluating algebraic expressions
	+ Group work.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 85
	+ Discovering secondary math Bk 1 pg 91-94
	+ Secondary math by KLB pg92
 |  |
| 3 | Algebraic expressions and functions |  Algebraic expressions in real life situations | By the end of the lesson learners should be able to solve problems in real life situations. | * + Discussions
	+ Demonstrations
	+ Working out examples on Algebraic expressions and functions
	+ Solving problems on Algebraic expressions and functions
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 85
	+ Discovering secondary math Bk 1 pg 91-94
	+ Secondary math by KLB pg 93
 |  |
| 4 | Rate, ratios, proportions and percentages | Rates | By the end of the lesson learners should be able to:1. Define the term rate
2. Solve problems involving rates
 | * + Discussions
	+ Demonstrations
	+ Working out examples on rates
	+ Solving problems on rates
	+ Group Work.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 86
	+ Discovering secondary math Bk 1 pg 144-146
	+ Secondary math by KLB pg 96
 |  |
| 5 | Rate, ratios, proportions and percentages | Ratio and proportion | By the end of the lesson learners should be able to:* + 1. explain what a ratio is
		2. Solve problems involving ratios
 | * + Discussions
	+ Demonstrations
	+ Working out examples on ratios
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 87
	+ Discovering secondary math Bk 1 pg 146-151
	+ Secondary math by KLB pg 96
 |  |
| 6 | Rate, ratios, proportions and percentages | Changing different ratios | By the end of the lesson learners should be able to change quantities in a given ratio | * + Discussions
	+ Demonstrations
	+ Working out examples on changing ratio.
	+ Solving problems on changing of ratios
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 89
	+ Discovering secondary math Bk 1 pg 151-153
	+ Secondary math by KLB pg97
 |  |
| Week 11 | 1-2 | Rate, ratios, proportions and percentages | Changing different ratios | By the end of the lesson learners should be able to change quantities in a given ratio | * + Discussions
	+ Demonstrations
	+ Working out examples on changing ratio.
	+ Solving problems on changing of ratios
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 89
	+ Discovering secondary math Bk 1 pg 151-153
	+ Secondary math by KLB pg97
 |  |
| 3 | Rate, ratios, proportions and percentages | sharing | By the end of the lesson learners should be able to share quantities in given ratios | * + Discussions
	+ Demonstrations
	+ Working out examples on sharing quantities in given ratios
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 90
	+ Discovering secondary math Bk 1 pg 151-153
	+ Secondary math by KLB pg 97-98
 |  |
| 4 | Rate, ratios, proportions and percentages | Direct proportions and inverse proportions | By the end of the lesson learners should be able to:* + 1. Differentiate between direct proportions and inverse proportions
		2. Solve problems involving direct proportions and inverse proportions
 | * + Discussions
	+ Demonstrations
	+ Working out examples on
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 91-94
	+ Discovering secondary math Bk 1 pg 91-94
	+ Secondary math by KLB pg 102
 |  |
| 5 | Rate, ratios, proportions and percentages | Percentages | By the end of the lesson learners should be able to:a) explain what a percentage isb) express one quantity as a percentage of anotherc) solve problems involving percentages | * + Discussions
	+ Demonstrations
	+ Working out examples on
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg94
	+ Discovering secondary math Bk 1 pg 153-157
	+ Secondary math by KLB pg 105
 |  |
| 6 | Rate, ratios, proportions and percentages | Comparing ratios | By the end of the lesson learners should be able to compare two given sets of ratios. | * + Discussions
	+ Demonstrations
	+ Working out examples on comparing different ratios
	+ Solving problems using fractions, decimals & %ages.
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg98
	+ Discovering secondary math Bk 1 pg 157
	+ Secondary math by KLB pg 100
 |  |
| 12-13 | REVISION AND END-OF-TERM TWO EXAMS |

TERM 3

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Week 1 | 1-2 |  Length | Units of length | By the end of the lesson learners should be able to:* + 1. State the SI unit of measuring length
		2. Make accurate conversions between units of length
 | * + Discussions
	+ Demonstrations
	+ Working out examples on lengths
	+ Solving problems of conversion
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 100
	+ Discovering secondary math Bk 1 pg 66
	+ Secondary math by KLB pg 111
 |  |
| 3 | Length | Significant figures | By the end of the lesson learners should be able to state accuracy to a given number of significant figures | * + Discussions
	+ Demonstrations
	+ Working out examples on lengths
	+ Solving problems of conversion
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 102
	+ Discovering secondary math Bk 1 pg 67-68
	+ Secondary math by KLB pg 111
 |  |
| 4 | Length | Perimeter of plane shapes | By the end of the lesson learners should be able to find perimeter of plane figures (Regular and irregular) | * + Discussions
	+ Demonstrations
	+ Working out examples on
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 103
	+ Discovering secondary math Bk 1 pg67-68
	+ Secondary math by KLB pg 113
 |  |
| 5 | Area  | Units of area | By the end of the lesson learners should be able to state correct SI units of calculating area | * + Discussions
	+ Demonstrations
	+ Working out examples on calculation of area.
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg109
	+ Discovering secondary math Bk 1 pg 114-115
	+ Secondary math by KLB pg123
 |  |
| 6 | Area | Area of triangle and of parallelogram | By the end of the lesson learners should be able to calculate the area of triangle and of parallelogram | * + Discussions
	+ Demonstrations
	+ Working out examples on areas of triangle and of parallelogram.
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 111
	+ Discovering secondary math Bk 1 pg 118-119
	+ Secondary math by KLB pg124
 |  |
| Week 2 | 1-2 | Area  | Area of trapezium | By the end of the lesson learners should be able to work out area of a trapezium  | * + Discussions
	+ Demonstrations
	+ Working out examples on area of trapezium
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 113
	+ Discovering secondary math Bk 1 pg 119-121
	+ Secondary math by KLB pg 124
 |  |
| 3 | Area | Area of circle | By the end of the lesson learners should be able to work out area of a circle and area of parts of a circle | * + Discussions
	+ Demonstrations
	+ Working out examples on
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 113
	+ Discovering secondary math Bk 1 pg 119-121
	+ Secondary math by KLB pg 129
 |  |
| 4 | Area  | Surface area of cube and of cuboid | By the end of the lesson learners should be able to compute the surface area of a cube and of cuboids | * + Discussions
	+ Demonstrations
	+ Working out examples on
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 118-119
	+ Discovering secondary math Bk 1 pg 124
	+ Secondary math by KLB pg 143
 |  |
| 5 | Algebraic expressions and functions | Algebraic fractions involving brackets | By the end of the lesson learners should be able to simplify an algebraic expression completely | * Discussions.
* Working out examples involving fractions in algebraic expressions
* Solving problems involving fractions in algebraic expressions with brackets
* Carrying out the four basic operations.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg83
	+ Discovering secondary math Bk 1 pg 85-91
	+ Secondary math by KLB pg 91
 |  |
| 6 | Algebraic expressions and functions | Substitution and evaluation | By the end of the lesson learners should be able to substitute and evaluate an algebraic expression accurately.  | * Discussions.
* Working out examples involving algebraic expressions.
* Solving problems involving substitution and evaluation of algebraic expressions.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 84
	+ Discovering secondary math Bk 1 pg 91-94
	+ Secondary math by KLB pg 92
 |  |
| Week 3 | 1-2 | Algebraic expressions and functions | evaluating algebraic expressions by substitution | By the end of the lesson learners should be able to evaluate algebraic expressions | * Discussions.
* Working out examples involving algebraic expressions.
	+ Solving problems involving evaluating algebraic expressions
	+ Group work.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 85
	+ Discovering secondary math Bk 1 pg 91-94
	+ Secondary math by KLB pg92
 |  |
| 3 | Algebraic expressions and functions |  Algebraic expressions in real life situations | By the end of the lesson learners should be able to solve problems in real life situations. | * + Discussions
	+ Demonstrations
	+ Working out examples on Algebraic expressions and functions
	+ Solving problems on Algebraic expressions and functions
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 85
	+ Discovering secondary math Bk 1 pg 91-94
	+ Secondary math by KLB pg 93
 |  |
| 4 | Rate, ratios, proportions and percentages | Rates | By the end of the lesson learners should be able to:1. Define the term rate
2. Solve problems involving rates
 | * + Discussions
	+ Demonstrations
	+ Working out examples on rates
	+ Solving problems on rates
	+ Group Work.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 86
	+ Discovering secondary math Bk 1 pg 144-146
	+ Secondary math by KLB pg 96
 |  |
| 5 | Rate, ratios, proportions and percentages | Ratio and proportion | By the end of the lesson learners should be able to:* + 1. explain what a ratio is
		2. Solve problems involving ratios
 | * + Discussions
	+ Demonstrations
	+ Working out examples on ratios
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 87
	+ Discovering secondary math Bk 1 pg 146-151
	+ Secondary math by KLB pg 96
 |  |
| 6 | Rate, ratios, proportions and percentages | Changing different ratios | By the end of the lesson learners should be able to change quantities in a given ratio | * + Discussions
	+ Demonstrations
	+ Working out examples on changing ratio.
	+ Solving problems on changing of ratios
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 89
	+ Discovering secondary math Bk 1 pg 151-153
	+ Secondary math by KLB pg97
 |  |
| Week 4 | 1-2 | Rate, ratios, proportions and percentages | sharing | By the end of the lesson learners should be able to share quantities in given ratios | * + Discussions
	+ Demonstrations
	+ Working out examples on sharing quantities in given ratios
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 90
	+ Discovering secondary math Bk 1 pg 151-153
	+ Secondary math by KLB pg 97-98
 |  |
| 3 | Rate, ratios, proportions and percentages | Direct proportions and inverse proportions | By the end of the lesson learners should be able to:* + 1. Differentiate between direct proportions and inverse proportions
		2. Solve problems involving direct proportions and inverse proportions
 | * + Discussions
	+ Demonstrations
	+ Working out examples on
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 91-94
	+ Discovering secondary math Bk 1 pg 91-94
	+ Secondary math by KLB pg 102
 |  |
| 4 | Rate, ratios, proportions and percentages | Percentages | By the end of the lesson learners should be able to:a) explain what a percentage isb) express one quantity as a percentage of anotherc) solve problems involving percentages | * + Discussions
	+ Demonstrations
	+ Working out examples on
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg94
	+ Discovering secondary math Bk 1 pg 153-157
	+ Secondary math by KLB pg 105
 |  |
| 5 | Rate, ratios, proportions and percentages | Comparing ratios | By the end of the lesson learners should be able to compare two given sets of ratios. | * + Discussions
	+ Demonstrations
	+ Working out examples on comparing different ratios
	+ Solving problems using fractions, decimals & %ages.
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg98
	+ Discovering secondary math Bk 1 pg 157
	+ Secondary math by KLB pg 100
 |  |
| 6 | Angles and plane figures | Angle properties of polygons i.e quadrilaterals (rectangles and squares) | By the end of the lesson learners should be able to state and apply the properties of polygons ie quadrilaterals (rectangles and squares | * + Discussions
	+ Demonstrations
	+ Working out examples on
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 185
	+ Discovering secondary math Bk 1 pg 56
	+ Secondary math by KLB pg 237
 |  |
| Week 5 | 1-2 | Angles and plane figures | Angle properties of polygons i.e quadrilaterals  | By the end of the lesson learners should be able to state and apply the properties of polygons ie quadrilaterals (parallelogram, Rhombus and trapezium) | * + Discussions
	+ Demonstrations
	+ Working out examples on
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 186
	+ Discovering secondary math Bk 1 pg 57
	+ Secondary math by KLB pg 237
 |  |
| 3 | Angles and plane figures | Angle properties of polygons i.e quadrilaterals  | By the end of the lesson learners should be able to state the properties of a kite | * + Discussions
	+ Demonstrations
	+ Working out examples on
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg188
	+ Discovering secondary math Bk 1 pg 57
	+ Secondary math by KLB pg 237
 |  |
| 4 | Angles and plane figures | General formula for Sum of interior angles of a polygon | By the end of the lesson learners should be able to use the general formula of a polygon to fine the number of sides in the polygon | * + Discussions
	+ Demonstrations
	+ Working out examples on Sum of interior angles of a polygon
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 188
	+ Discovering secondary math Bk 1 pg 57
	+ Secondary math by KLB pg 239
 |  |
| 5 | Common Solids | introduction | By the end of the lesson learners should be able to define name and identify common solids | * + Discussions
	+ Demonstrations
	+ Working out examples on Common Solids
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg222
	+ Discovering secondary math Bk 1 pg 182
	+ Secondary math by KLB pg 271
 |  |
| 6 | Common Solids | Sketching of solids | By the end of the lesson learners should be able to draw sketches of common solids | * + Discussions
	+ Demonstrations
	+ Working out examples on Sketching of solids
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 229
	+ Discovering secondary math Bk 1 pg 182
	+ Secondary math by KLB pg275-276
 |  |
| Week 6 | 1-2 | Common Solids | Draw models of common solids | By the end of the lesson learners should be able to draw models of common solids | * + Discussions
	+ Demonstrations
	+ Working out examples on Drawing of models
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 229
	+ Discovering secondary math Bk 1 pg 183
	+ Secondary math by KLB pg 277
 |  |
| 3 | Common Solids | Drawing nets of common solids | By the end of the lesson learners should be able to draw nets of common solids | * + Discussions
	+ Demonstrations
	+ Working out examples on Drawing nets of common solids
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 229
	+ Discovering secondary math Bk 1 pg 186
	+ Secondary math by KLB pg277-280
 |  |
| 4 | Common Solids | Surface area of common solids | By the end of the lesson learners should be able to calculate the surface area of common solids | * + Discussions
	+ Demonstrations
	+ Working out examples on using nets to calculate the surface area of common solids.
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 231
	+ Discovering secondary math Bk 1 pg 188
	+ Secondary math by KLB pg 284
 |  |
| 5 | Common Solids | Distance between points on solids | By the end of the lesson learners should be able to calculate distances between points on solids | * + Discussions
	+ Demonstrations
	+ Working out examples on
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 233
	+ Discovering secondary math Bk 1 pg 189
	+ Secondary math by KLB pg 284
 |  |
| 6 | Common Solids | Application  | By the end of the lesson learners should be able to apply and use the concept of common solids in every day life situations. | * + Discussions
	+ Demonstrations
	+ Working out examples on
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 233
	+ Discovering secondary math Bk 1 pg 190
	+ Secondary math by KLB pg 286
 |  |
| Week 7 | 1-2 | Geometrical construction | Construction of a triangle given the three sides | By the end of the lesson learners should be able to construct a triangle given the three sides | * + Explain the use of protractor and ruler
	+ Oral exercises on use protractor in the construction
	+ Practice construction work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook.
 | * + Advancing math Bk 1 pg192
	+ Discovering secondary math Bk 1 pg 85-86
	+ Secondary math by KLB pg 229
 |  |
| 3 | Geometrical construction | Construction of a triangle given two sides and an angle | By the end of the lesson learners should be able to construct a triangle give two sides and one angle | * + Explain the use of protractor and ruler
	+ Oral exercises on use protractor in the construction
	+ Practice construction work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 193
	+ Discovering secondary math Bk 1 pg 87
	+ Secondary math by KLB pg 229
 |  |
| 4 | Geometrical construction | Construction of a triangle given one side and two angles | By the end of the lesson learners should be able to construct a triangle when one side is given and two angles | * + Explain the use of protractor and ruler
	+ Oral exercises on use protractor in the construction
	+ Practice construction work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg194
	+ Discovering secondary math Bk 1 pg 86-88
	+ Secondary math by KLB pg 230
 |  |
| 5 | Geometrical construction | Construction of perpendicular lines | By the end of the lesson learners should be able to Construct a perpendicular line | * + Explain the use of protractor and ruler
	+ Oral exercises on use protractor in the construction
	+ Practice on use of pair of compasses in construction of perpendicular lines
	+ Practice construction work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg197
	+ Discovering secondary math Bk 1 pg 85-94
	+ Secondary math by KLB pg 229
 |  |
| 6 | Geometrical construction | Bisection of a line segment | By the end of the lesson learners should be able to bisect a line segment | * Discussions.
	+ Explain the use of protractor and ruler
	+ Oral exercises on use protractor in the construction
	+ Practice on use of pair of compasses in construction of a bisector
	+ Practice construction work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg198
	+ Discovering secondary math Bk 1 pg 85-91
	+ Secondary math by KLB pg 235
 |  |
| Week 8 | 1-2 | Geometrical construction | Copying an angle using ruler and pair of compasses only | By the end of the lesson learners should be able to copy an angle by use of ruler and pair of compasses only | * + Explain the use of protractor and ruler
	+ Oral exercises on use protractor in the construction
* Practice on use of pair of compasses in construction of angles.
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg200
	+ Discovering secondary math Bk 1 pg 85-91
	+ Secondary math by KLB pg 237
 |  |
| 3 | Geometrical construction | Bisecting an angle | By the end of the lesson learners should be able to construct a bisector of an angle  | * Discussions.
	+ Oral exercises on use protractor in the construction of angle bisector
* Practice on use of pair of compasses in construction of angle bisector
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 201
	+ Discovering secondary math Bk 1 pg 91-94
	+ Secondary math by KLB pg 229
 |  |
| 4 | Geometrical construction | Construction of angles  | By the end of the lesson learners should be able to construct angles  | * Discussions.
	+ Oral exercises on use protractor in the construction of angle bisector
	+ Practice on use of pair of compasses in construction of the given angles

  | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 201
	+ Discovering secondary math Bk 1 pg 91-94
	+ Secondary math by KLB pg 229
 |  |
| 5 | Geometrical construction | Construction of parallel lines | By the end of the lesson learners should be able to construct parallel lines | * Discussions.
	+ Oral exercises on use protractor in the construction of angle bisector
	+ Practice on use of pair of compasses in construction of the given angles
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 202
	+ Discovering secondary math Bk 1 pg 91-94
	+ Secondary math by KLB pg 235
 |  |
| 6 | Geometrical construction | Proportional division of a line | By the end of the lesson learners should be able to construct a proportional division of a line | * Discussions.
	+ Oral exercises on use protractor in the construction of angle bisector
	+ Practice on use of pair of compasses in construction of the given angles
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 203
	+ Discovering secondary math Bk 1 pg 95
	+ Secondary math by KLB pg 236
 |  |
| Week 9 | 1-2 | Geometrical construction | Construction of quadrilaterals ie (square, rectangle and Rhombus) | By the end of the lesson learners should be able to construct the given quadrilaterals | * Discussions.
	+ Oral exercises on use protractor in the construction of angle bisector
	+ Practice on use of pair of compasses in construction of the given angles
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 204-205
	+ Discovering secondary math Bk 1 pg 99
	+ Secondary math by KLB pg 236
 |  |
| 3 | Geometrical construction  | Construction of quadrilaterals ie (Parallelogram and trapezium) | By the end of the lesson learners should be able to construct Trapezium and parallelogram | * Discussions.
	+ Oral exercises on use protractor in the construction of angle bisector
	+ Practice on use of pair of compasses in construction of the given angles
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 205
	+ Discovering secondary math Bk 1 pg 91-94
	+ Secondary math by KLB pg 237
 |  |
| 4 | Geometrical construction | Construct regular polygons | By the end of the lesson learners should be able to construct the regular polygons | * + Discussions
	+ Demonstrations
	+ Working out examples on construction of regular polygons
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing Bk 1 pg 205
	+ Discovering secondary math Bk 1 pg 91-94
	+ Secondary math by KLB pg 238
 |  |
| 5 | Geometrical construction | Construction of irregular polygons | By the end of the lesson learners should be able to construct the irregular polygons | * + Discussions
	+ Demonstrations
	+ Working out examples on construction of irregular polygons
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 208
	+ Discovering secondary math Bk 1 pg 91-94
	+ Secondary math by KLB pg 238
 |  |
| 6 | Scale Drawing | Type and choice of scale | By the end of the lesson learners should be able to :1. Describe the types of scales
2. Choose an appropriate scale for a drawing
 | * + Discussions
	+ Demonstrations
	+ Working out examples on choosing of scale
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 209
	+ Discovering secondary math Bk 1 pg 162
	+ Secondary math by KLB pg 248
 |  |
| Week 10 | 1-2 | Scale Drawing | Angles of elevation | By the end of the lesson learners should be able to draw an angle of elevation | * + Discussions
	+ Demonstrations
	+ Working out examples on
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 209
	+ Discovering secondary math Bk 1 pg162
	+ Secondary math by KLB pg 249
 |  |
| 3 | Scale Drawing | Angles of depression | By the end of the lesson learners should be able to draw an angle of depression | * + Discussions
	+ Demonstrations
	+ Working out examples on depression
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 211
	+ Discovering secondary math Bk 1 pg 163
	+ Secondary math by KLB pg 250
 |  |
| 4 | Scale Drawing | Compass and bearing | By the end of the lesson learners should be able to use a compass in bearings | * + Discussions
	+ Demonstrations
	+ Working out examples on bearings
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 213
	+ Discovering secondary math Bk 1 pg 163
	+ Secondary math by KLB pg 251
 |  |
| 5 | Scale Drawing | Surveying | By the end of the lesson learners should be able to carry out a survey  | * + Discussions
	+ Demonstrations
	+ Working out examples on surveying
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 216
	+ Discovering secondary math Bk 1 pg 164
	+ Secondary math by KLB pg 262
 |  |
| 6 | Scale Drawing | Surveying using bearings | By the end of the lesson learners should be able to carry out a survey using bearings | * + Discussions
	+ Demonstrations
	+ Working out examples on bearings
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 219
	+ Discovering secondary math Bk 1 pg 165
	+ Secondary math by KLB pg262
 |  |
| Week 11 | 1-2 | Scale Drawing | Surveying using distances | By the end of the lesson learners should be able to carry out survey using distances | * + Discussions
	+ Demonstrations
	+ Working out examples on surveying
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 219
	+ Discovering secondary math Bk 1 pg 165
	+ Secondary math by KLB pg262
 |  |
| 3 | Scale Drawing | Carrying out field survey | By the end of the lesson learners should be able to carry out a field survey | * + Discussions
	+ Demonstrations
	+ Working out examples on field survey
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 219
	+ Discovering secondary math Bk 1 pg 166
	+ Secondary math by KLB pg262
 |  |
| 4 | Scale Drawing | Areas of irregular shapes | By the end of the lesson learners should be able to work out the area of irregular shapes | * + Discussions
	+ Demonstrations
	+ Working out examples on irregular shapes
	+ Solving problems
	+ Group work
 | * + Chalkboard
	+ Charts illustrating worked examples.
	+ Practice exercise
	+ Lesson notes
	+ Class textbook
 | * + Advancing math Bk 1 pg 220
	+ Discovering secondary math Bk 1 pg 167
	+ Secondary math by KLB pg267
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