**SIR APOLLO KAGGWA SCHOOLS**

**LESSON NOTES FOR PRIMARY THREE 2016**

**TERM I MATHEMATICS TOPICAL BREAKDOWN FOR P.3**

Topical breakdown

1. Sets
2. Naming and drawing sets
3. Grouping members in a set
4. Comparing sets
5. Types of sets; equal sets, union set, intersection set, empty set, equivalent , subsets etc
6. Listing members of a set
7. Answering questions about the venn diagram
8. Numeration system and place values
9. Finding missing numbers
10. Writing numbers shown on the abacus
11. Drawing and showing numbers on abacus
12. Writing place values and values of numbers
13. Writing numbers in words
14. Writing numbers in figures
15. Expanding numbers
16. Writing expanded numbers
17. Operation on whole numbers
18. Addition

* Addition of 2 digit number with and without carrying
* Addition of 3 digit number with and without carrying
* Addition of 4 digit number with and without carrying

1. Subtraction

* Subtraction of 2 digit number with and without carrying
* Subtraction of 3 digit number with and without carrying
* Subtraction of 4 digit number with and without carrying

1. Multiplication – multiplying by 2,3,4,5,6,7,8,9,10,11,12
2. Division – dividing by 2, and 3 (simple numbers)

**SIR APOLLO KAGGWA SCHOOLS**

**P.3 MATHEMATICS LESSON NOTES TERM 1 2015**

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| Theme  Sub-theme  Content  Evaluation activity | **Our Division**  **Name and location of our Division**  **Counting and finding missing numbers**  Numbers between 0 - 99 e.g.   1. 0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 2. 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 3. 52, 53, 54, 55, 56, 57, 58 4. 30, 40, 50, 60, 70, 80, 90, 100   Pupils will do a filling in exercise   1. 5, 10, 15, \_\_\_\_, 25, 30, 35, \_\_\_\_, 45, 50, \_\_\_\_, 60 2. 10, 9, 8, 7, 6, \_\_\_\_, 3, 2, \_\_\_\_, 0 3. 45, 46, 47, 48, \_\_\_\_, 50, 51, \_\_\_\_, 53 4. 100, 90, \_\_\_\_, 70 60, 50, \_\_\_\_, 30, 10 5. 52, 54, 56, \_\_\_\_, 60, 62, \_\_\_\_, 66 |
| Theme  Sub-theme  Content  Evaluation activity | **Our Division**  **Name and location of our Division**  **Sets**  Definition a set is a collection of well defined objects.  Naming sets e.g.  e.g A set of vowel letters {a, e i, o, u}  A set of balls    Forming sets e.g. Draw a set of numbers 1, 2, 3, 4, 5, 6  b) Draw a set of books  Counting members in a set  e.g. a) A set of two trees  b) A set of 3 pots.   1. Draw these sets 2. A set of 2 bottles 3. A set of 5 huts 4. A set of 6 chairs 5. Name the sets below 6. b) (c)   b, c, f, Tina  Elizabeth  Mary |
| Theme  Sub-theme  Content  Evaluation activity | **Our Division**  **Name and location of our Division**  **Making new sets**  Subset – A subset s a small set got from a big set.  Symbol for subset C and not subset C  What is a subset?   1. Make and name new sets. |
| Theme  Sub-theme  Content  Evaluation activity | **Our Division**  **Name and location of our Division**  **Empty sets / null set**  Definition An empty set is a set with no members. The symbol for empty set is { } or  Using empty or not empty   1. A set of men who breastfeed babies. Empty set 2. A set of birds with two eyes. Not empty set 3. A set of animals eaten as food. Not empty set 4. What is an empty set? 5. Use empty or not empty 6. A set of flies which are as big as flies. 7. A set of people who are women. 8. A set of homes with 10 people. 9. A set of cows with 3 eyes. 10. A set of 7 books. 11. Name the symbol given. { } |
| Theme  Sub-theme  Content  Evaluation activity | **Our Division**  **Name and location of our Division**  **Grouping members in a set**   1. Grouping in twos 2. Grouping in threes 3. Grouping in fives   **Example**      There are 6 groups of two eggs.  Group and fill the gaps.  Exercise 1g of MK old edition pg8 |
| Theme  Sub-theme  Content  Evaluation activity | **Our Division**  **Name and location of our Division**  **Comparing sets using more or less**  Examples  M N  g y x  w z  Set M has 4 members  Set N h as 5 members  Set N has more members than set M.  Exercise 1d of MK old edition pg4 |
| Theme  Sub-theme  Content  Evaluation activity | **Our Division**  **Name and location of our Division**  **Types of sets**   1. Equal sets : these are sets with same members and same number of objects.   e.g. A B  1, 2, 3 1, 2, 3  Set A has 3 members  Set B as 3 members  Since the members are the same, therefore they are equal sets.  Symbols are;  = equal to not equal to  Exercise 1n Mk old edition pg18. |
| Theme  Sub-theme  Content  Evaluation activity | **Our Division**  **Name and location of our Division**  **Types of sets**   1. Equivalent sets and non equivalent sets   These are sets with the same number of elements; however the members may not be the same.  e.g. X Y  1 7 8  Set X and set Y are equivalent sets.  Define equivalent sets  Exercise 1n Mk old edition pg 18. |
| Theme  Sub-theme  Content  Evaluation activity | **Our Division**  **Name and location of our Division**  **Listing members in a set**  e.g. 1, 2, 3, 0, 5 = {0, 1, 2, 3 5}  = { }  **Matching sets**  f a  h b  g c  Exercise 1m of MK old edition pg 16. |
| Theme  Sub-theme  Content  Evaluation activity | **Our Division**  **Name and location of our Division**  **Finding common numbers (intersection)**  Intersection symbol; ∩  e.g. A = {1, 2, 3, 4} B = {0, 1, 2, 5}  A ∩ B = {1, 2}  R = { } S = { }  R Ո S = { }  Exercise from a textbook  Identifying the intersection part on a venn diagram  Eg.  A B |
| Theme  Sub-theme  Content  Evaluation activity | **Our Division**  **Name and location of our Division**  **The union set**  Finding members in the union set using curry brackets.  e.g. A ={a, b, c, d, f, e}  B = {d, e, f, a}  P = {1, 2, 3, 4}  Q = {3, 5, 7, 9}  A ∪ B = {a, f, e, b, c, d}  P ∪ Q = {1, 2, 3, 4, 5, 7, 9}  An exercise from a text book  Union symbol = ∪  Identifying the union part on a venn diagram  Eg.  A B |
| Theme  Sub-theme  Content  Evaluation activity | **Our Division**  **Name and location of our Division**  **Finding number of members in a given set using symbol (n)**  e.g. P = {1, 4, 7}  Find n (P)  P = {1,4,7}  n (P) = 3 members  M = {a, e, i, o, u}  Find n(M)  M = {a,e,i,o,u}  n(M) = 5 members  An exercise from a textbook |
| Theme  Sub-theme | **Our Division**  **Name and location of our Division**  **Finding the number of members in the intersection set using symbol (n)**  e.g. P = {a, b, c}  Q = {c, f, a}  Find n (P∩Q)  P∩Q = {a}  n(P∩Q) = 1 member  A = {1, 2, 3, 5}  B = {2, 3, 5, 7, 9}  Find n(A∩B)  A∩B = {2, 3, 5}  n(A∩B) = 3 members |
| Theme  Sub-theme  Content  **Evaluation activity** | **Our Division**  **Name and location of our Division**  **Finding number of members in the union set**  e.g. S = {1, 2, 3, 4}  J = {6, 7, 8}  Find n (S∪J)  S∪J = {1, 2, 3, 4, 6, 7, 8}  n(S∪J) = 7 members  A = {a, b, c, d, e}  B = {a, e, i, o, u}  Find n(A∪B)  A∪B = {a, b, c, d, e, i, o, u}  n(A∪B) = 8 members  An exercise from the textbook. |
| Theme  Sub-theme  Content  **Evaluation activity** | **Our Division**  **Name and location of our Division**   1. Shading given sets   e.g shade set A  A B   1. **Representing information on a venn diagram**   Examples given;  X = {0, 1, 2, 3, 4} Y = {1, 4, 7, 8, 0}  **X Y**  3 1 4 7  1 0 8  P = {a, b, c, d} Q = {d, e, f, g, i}    **P Q**  a d f  b c d i   1. Answering questions about a venn diagram   A B  1 3 5 6 find; (i) A∪B  4 0 7 (ii) AՈB  (iii) A only etc  An exercise from the textbook |
| Theme  Sub-theme  Content  **Evaluation activity** | **Our Division**  **Physical features in our division**  **Numeration system and place values (abacus)**  Writing numbers on the abacus  **H T O TH H T O**  3 4 4 4 2 0 3  An exercise from the MK 2000 bk3 pg21 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Our Division**  **Physical features in our division**  **Place values**  Filling in missing numbers in their place values e.g.   1. 603 = 6 hundreds 0 tens 3 ones 2. 14 = 1 tens 4 ones 3. 348 = 3 hundreds 4 tens 8 ones   Write these numbers   1. 3 hundreds 4 tens 5 ones = 345 2. 2 tens 6 ones = 26   An exercise from the MK 2000 Bk3 pg 222 and 223 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Our Division**  **Physical features in our division**  **Finding place values**  e.g. TH T H O  1 2 3 4  4 is ones, 3 is tens, 2 is hundreds, 1 is thousands  Find the place value of 8 in the number: 4789  Solution: 4789    tens  The place value of 8 is tens  An exercise from primary MTC Bk3 page 35 |
| Theme  Sub-theme  Content | Our division  Physical features in our division  Finding values of given numbers  e.g find the value of 6 in the number 469  H T O  469 = 4 6 9  ( 6x10) = 60  The value of 6 is 60 |
| Theme  Sub-theme  Content | Livelihood in our division  Social services and their importance  Finding sum of values  e.g find the sum of the values of 7 and 8 in the number shown above  ThHTO  4789 = 4789  (8x10)=80  (7x100)=700  700  +80  780 |
| Theme  Sub-theme  Content | Livelihood in our division  Social services and their importance  Expanding numbers using place values  Eg. Expand 234  HTO  234 = (2x100)+(3x10)+(4x1) |
| Theme  Sub-theme  Content | Livelihood in our division  Social service and their importance  Eg. Expand 234 using values  234= 200+30+5 |
| Theme  Sub-theme  Content | Livelihood in our division  Social services and their importance  Writing expanded numbers in short form  Eg. What number has been expanded?  700+20+3 = 700  20  + 3  723 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Social services and their importance**  **Writing figures in words**  e.g. Write 48 in words  solution: 48 = 40 forty  + 8 eight  48 forty eight  An exercise from MK 2000 Bk3 pg23 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Social services and their importance**  **Writing numbers in figures**  e.g. Write ‘Two hundred twelve’in figures  Two hundred = 200  Twelve = +12  Two hundred twelve 212  An exercise 2g Mk Bk3 pg24 |
| Theme  Sub theme  Content  **Evaluation activity** | Livelihood in our division  Social services and their importance  Roman Numerals  (I,II, III, IV, V, VI, VII, VIII, IX, X, L, -----)  Converting Hindu Arabic numerals to Roman numerals  Converting Hindu Arabic numerals to Roman numerals  e.g. Convert 42 into Roman numerals  42 = 40 + 2  = XL + II  = XLII  Convert 15 into Roman numerals  15 = 10 + 5  = X + V  = XV  An exercise from MK old edition pg 44 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Social services and their importance**  **Roman numerals**  Converting Roman numerals to Hindu Arabic numerals  e.g. Change VIII to Hindu Arabic numerals  VIII = 8  Change XXIV to Hindu Arabic numerals  XXIV = XX + IV  = 20 + 4  = 24  An exercise from MK old edition pg44 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Challenges in social services and their solutions**  Definition  Even numbers are numbers which are exactly divisible by 2.  **Types of numbers**  Even numbers  e.g. 0, 2, 4, 6, 8, 10, 12, 14, …………..  An exercise from MK 2000 Bk3 pg20 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Challenges in social services and their solutions**  Definition of odd numbers: are numbers which are not exactly divisible by 2.  **Types of numbers**  Odd numbers  e.g. 1, 3, 5, 7, 9, 11, 13, 15, …………..  An exercise from MK 2000 Bk3 pg20 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Challenges in social services and their solutions**  **Operation on whole numbers**  Addition of tens and ones vertically without carrying  1 1 add ones = 1 + 2 = 3  +1 2 add tens = 1 + 1 = 2  2 3  **Word problems**  Ashabe had 32 mangoes, she picked 17 more mangoes. How many mangoes did she have altogether?  Solution  3 2 mangoes  + 1 7 mangoes  4 9  An exercise from MK 2000 bk3 pg 40 and 41 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Soil**  **Addition with carrying (vertically)**  e.g. 8 6 6 + 4 = 10  + 2 4  1 1 0  **Word problems**  Tushabe had 27 litres of milk. His mother gave him more 14 litres of milk. How many litres of milk did he have altogether?  Solution 2 7 litres 7 + 4 = 11  + 1 4 litres  4 1 litres  Exercise 3c from MK 2000 Bk3 pg 42 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Soil**  **Addition up to 4 place vales with and without carrying**  e.g. Add **TH H T O**  1 4 1 3  + 2 3 0  1 6 4 3  **Word problems**  A train carried 20 children, 23 men and 125 women. How many people did it carry altogether?  Solution Children 2 0  Men 2 3  Women + 2 5  Altogether 1 68 people  Exercise 3d from MK 2000 Bk3 pg43 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Soil**  **Addition using a number line**  e.g. Add: 2 + 8 =  0 1 2 3 4 5 6 7 8 9 10  2 + 8 = 10  Add: 5 + 3 =  0 1 2 3 4 5 6 7 8 9 10  5 + 3 = 8  Exercise 4k from Mk old edition Pg 55 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Soil**  **Word problems**  e.g. Sungura had 65 cows. He sold off 35. How many cows remained?  soln 6 5 5 – 5 = 0  ­- 3 5 6 – 3 = 3  3 0 cows  Exercise 4b from Mk 2000 bk3 pg49 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Soil**  **More subtraction**  e.g. 1 2 7 7 – 2 = 5  ­- 3 2 12 – 3 = 9  9 5  Exercise 4c from Mk 2000 Bk3 Pg50 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Soil**  **More subtraction**  e.g. Take away 53 from 91  8 9 11  ­- 5 3  3 8  Exercise 4d from Mk 2000 Bk3 Pg51 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Soil**  **Subtraction of 4 digit numbers**  e.g. 3 6 4 2  ­ - 3 2 1  3 3 2 1  Word problems e.g. on Pg 54 of MK 2000  **Evaluation activity**  Exercise 4e from Mk 2000 bk3 Pg 52 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Soil**  **Subtracting using a number line**  e.g. 5 - 3 =    0 1 2 3 4 5 6 7 8 9 10  5 - 3 = 2  An exercise from Trs resource book |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Soil**  **Multiplication table (x2)**   1. Complete the table  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | No of pairs | 1 | 2 | 3 | 4 | 5 | | No. of legs | 2 | 4 | 6 | 8 | 10 |   3 4 3  x 2  6 8 6  Exercise 5a from Mk 2000 Bbk3 Pg 55 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Soil**  **Multiplication x2**  **Word problems**  e.g. How many eyes do 5 boys have?  Solution 5 x 2 = 10eyes  Exercise 6e from Mk Old edition pg65 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Soil**  **Multiplication table (x3)**  Complete the table   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | No of stools | 1 | 2 | 3 | 4 | 5 | | No. of legs | 3 | 6 | 9 | 12 | 15 |   1 4 4 x 3 = 12  X 3 3 x 1 = 3  4 2 3 + 1 = 4  Exercise 5d from Mk 2000 Bk3 Pg58 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Soil**  **Multiplication x3**  **Word problems**  e.g. One book has 12 pages. How many pages do 3 similar books have?  Solution  1 2 2 x 3 = 6  X 3 1 x 3 = 3  3 6 pages  Exercise 5e from Mk 2000 Bk3 pg 58 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Soil**  **Multiplication table (x4)**  Complete the table   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | No of cows | 1 | 2 | 3 | 4 | 5 | | No. of legs | 4 | 8 | 12 | 16 | 20 |   1 5 5 x 4 = 20  X 4 1 x 4 = 4  6 0 ( 4 + 2) = 6  Exercise 5g from Mk 2000 Bk3 Ppg61 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Soil**  **Multiplication table (x6 and x5)**  Complete the table   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | No of insects | 1 | 2 | 3 | 4 | 5 | | No. of legs | 6 | 12 | 18 | 24 | 30 |   Multiply  1 2 3 3 x 6 = 18  X 6 2 x 6 = 12  7 3 8 (12 + 1) = 13  1 x 6 = 6  (1 + 6) = 7  Exercise 5L from Mk 2000 Bk3 Pg 65 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Soil**  **Multiplication x6 Word problems**  e.g. 1 kg of sugar costs 1200/=. What will be the cost of 6kg?  1 2 0 0 0 x 6 = 0  X 6 0 x 6 = 0  7 2 0 0 2x 6= 12  1 x 6 = 6  (6 + 6) = 7  An exercise from Trs resource book |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Soil**  **Multiplication x7**  e.g. Multiply  2 3 3 x 7 = 21  x 7 2 x 7 = 14  1 6 1 (14 + 2) = 16  Exercise 5n from Mk 2000 Bk3 Pg66 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Natural causes of challenges in our environment**   1. Complete the table  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | No of weeks | 1 | 2 | 3 | 4 | 5 | 6 | | No. of days | 7 | 14 | 21 | 28 | 35 | 42 |  1. Word problems   e.g How many days are there in 3 weeks?  Solution : 3 x 7 = 21 days  An exercise from Trs resource book |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Natural causes of challenges in our environment**  **Multiplication x8**  e.g. Multiply  3 2 2 x 8 = 16  x 8 3 x 8 = 24  2 5 6 (24 + 1) = 25  Exercise 5p from Mk 2000 Bk3 Pg 67 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Natural causes of challenges in our environment**  Complete the table   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | No of spiders | 1 | 2 | 3 | 4 | 5 | 6 | | No. of legs | 8 | 16 | 24 | 32 | 40 | 48 |   How many legs do 2 spiders have?  2x 8= 16 legs  An exercise from Trs resource book |
|  | **Livelihood in our division**  **Natural causes of challenges in our environment**  **Word problems**  **An exercise book has 36 pages. How many pages do 9 exercise books have?**  e.g. Multiply  3 6 6 x9 = 54  x 9 3x 9 = 27  32 4 (27 + 5) = 32  **An exercise from teacher’s resource book.** |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Natural causes of challenges in our environment**  **Multiplication table 10**  e.g. Multiply 32 x 10  12x10=120  32x10=320  48x10=480  53x10=530  Complete the table   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | X | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | | 10 | 0 | 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 110 | 120 |   Exercise 5t from Mk 2000 Bk3 Pg 69 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Natural causes of challenges in our environment**  **Word problems**  Complete the table   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | No of girls | 1 | 2 | 3 | 4 | 5 | 6 | | No. of fingers | 10 | 20 | 30 | 40 | 50 | 60 |   How many toes do 5 boys have?  1 0  x 5  5 0 toes  Multiplication table 11  E.g multiply 2 x 11  11  X2  22  Exercise from Mk Bk3 Pg 97 |
| Theme  Sub-theme  Content  **Evaluation activity** | **Livelihood in our division**  **Natural causes of challenges in our environment**  **Multiplication by 12**  Complete the table   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | No of years | 1 | 2 | 3 | 4 | 5 | | No. of months | 12 | 24 | 26 | 48 | 60 |   How many books are there in 3 dozens of books?  1 2  x 3  3 6 books  An exercise from Trs collection |
| Theme  Sub-theme  Content | **Livelihood in our division**  **Changes in the environment through human activities**  **Division of simple numbers**  e.g.  i) 36 ÷ 4 = 9  ii) 25 ÷ 5 = 5  iii) 15 ÷3 = 5 etc |

**Term II 2016**

Topical breakdown

1. Number patterns and sequence
2. Finding missing numbers
3. Counting in twos, threes, fours, fives and tens
4. Completing tables – addition, subtraction, multiplication, division
5. Addition of magic square
6. Fractions
7. Naming fractions
8. Drawing fractions
9. Comparing fractions
10. Addition of fractions
11. Subtraction of fractions
12. Finding shaded and unshaded
13. Graphs
14. Pictographs
15. Bar graph
16. Drawing graphs

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| **P.3 MATHEMATICS LESSON NOTES TERM 2 2016** | |
|  | Lesson I  **Number facts and sequences**  **Filling in the missing numbers**  **Content: Counting in twos, threes, fours, fives and tens (ascending)**  Examples   1. 0, 2, 4, 6, \_\_\_, 10, \_\_\_, 14 2. 0, 3, 6, 9, \_\_\_\_, \_\_\_\_, 18 3. 4, 8, \_\_\_\_, 16, \_\_\_\_, 24, \_\_\_\_, 32 4. 0, \_\_\_, 10, 15, \_\_\_\_, 25, \_\_\_\_ 5. 10, 20, 30, \_\_\_, 50, \_\_\_\_   An activity in MK bk3 pg84 |
| Topic  Subtopic  content  **Evaluation activity** | Lesson 2  Number patterns and sequence  Filling in the missing numbers  Counting in twos, threes , fours , fives and tens in a ascending and descending order  **Examples:**  16 , \_\_\_ , 12 , \_\_\_\_\_ , 8 , 6 , \_\_\_ , 2 , 0   1. 9, \_\_\_, 3, 0 2. 60, \_\_\_\_, 40, \_\_\_\_, 20, 100   An activity MK bk3 pg85 |
| Topic  Subtopic  content  **+**  **Evaluation activity** | **Lesson 3:**  **Number facts and sequences**  **Completing tables**  **Filling in the missing numbers (tables of addition)**  e.g.  b  3  c 8 +4 6 a    4 \_\_\_ b +10 4 \_\_\_\_  8      7  a=\_\_\_\_\_\_\_b=\_\_\_\_\_\_c=\_\_\_\_\_\_d=\_\_\_\_\_\_  MK bk3 pg81 |
| Topic  Subtopic  content  **Evaluation activity** | **Lesson 4**  **Number facts and sequences**  **Completing tables**  **Tables of subtraction**  example  d  10  20 c 20- 14 a  b  19  a=\_\_\_\_\_\_\_  b=\_\_\_\_\_\_\_  c=\_\_\_\_\_\_\_\_  d=\_\_\_\_\_\_\_  \_\_\_ \_\_\_\_  5 15- 4  \_\_\_  9  Written exercise |
| Topic  Subtopic  content  **Evaluation activity** | **Lesson 5**  **Number facts and sequences**  **Completing tables**  **Tables involving multiplication and division**  Example  21  9 = 7 x 2 = 14    d 8 7x 2 a b = 21 ÷ 7  = 3  d  a=\_\_\_\_\_\_\_  b=\_\_\_\_\_\_\_  c=\_\_\_\_\_\_\_\_  d=\_\_\_\_\_\_\_  35  \_\_\_ \_\_\_\_  5 15- 3  \_\_\_  10  Written exercise |
| Topic  Subtopic  content  **Evaluation activity** | **Lesson 6**  **Number facts and sequences**  **Filling in the missing numbers**  **Relationship between multiplication and division**  Examples  12 ÷ 4 =  3 x 4 = 12  12 ÷ 3 =  d  a=20÷4=a where a is 5  b=20÷5=b where b is 4  c=20÷2=a where c is 10  d=20÷10=a where d is 2  10  c 2 20÷ 4 a  5  b  An activity from MK bk3 pg86 |
| Topic  Subtopic  content  **Evaluation activity** | **Lesson 8**  **Number facts and sequences**  **Filling in the missing numbers**  **Sum at the centre of tables**  Example  The sum at the centre is 15. Find the missing numbers.  e.g.  b  3  c 3 15 7 a    d  11    An activity from MK bk3 pg81 |
| Topic  Subtopic  content  **Evaluation activity** | **Lesson 9 and 10**  **Number facts and sequences**  **Filling missing numbers**  **Completing magic square**  Examples   |  |  |  | | --- | --- | --- | | 7 | a | 5 | | 2 | 4 | c | | b | 8 | 1 |   Magic sum = 7 + 4 + 1 = 12  b + 9 + 7 = 12  b + 9-9 =12-9  b = 3  An activity from MK bk3 pg87 |
| Topic  Subtopic  content  **Evaluation activity** | **Lesson 11**  **Fractions**  **i)Naming fractions**  **Definition**  A fraction is a part of a whole.  Figure words  1 a whole  ½ a half  1/3 a third  ¼ a quarter  1/5 a fifth  2/3 two thirds  3/5 three fifth  ii) writing fractions in figures   1. Three quarters = \_\_\_\_\_\_ 2. Five tenths = \_\_\_\_\_\_\_ 3. Two fifth = \_\_\_\_\_\_ 4. A third = \_\_\_\_\_\_\_   A written exercise |
| Topic  Subtopic  content  **Evaluation activity** | **Lesson 12**  **Fractions**  **Comparing fractions**  **Comparing fractions using greater than or less than**  ½ 1/3    ½ is greater than 1/3  An activity from MK BK3 pg99-100 |
| Topic  Subtopic  content | **Lesson 13**  **Fractions**  **Comparing fractions**  **Comparing fractions using symbols**  i.e. >, < or =  a) 1/10 < 1/9  b) ¼ = ¼  c) 1/5 > 1/6 |
| Topic  Subtopic  content  **Evaluation** | **Lesson 14**  **Fractions**  **Shaded and unshaded fractions**  Examples   |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  |  1. Shaded fraction = ¾ 2. Unshaded fraction = ¼  1. Shaded fraction = 2/5 2. Unshaded fraction = 3/5   An activity from MK bk3 pg97 |
| Topic  Subtopic  content  **Evaluation** | **Lesson 15**  **Fractions**  **Drawing and shading fractions**  **Examples**  Draw and shade the fractions below  ¾ 1/2  An activity from pg98 |
| Topic  Subtopic  content  **Evaluation** | **Lesson 16**  **Fractions**  **Addition of fractions**  **Examples**  a) 1 + 2 = 1 + 2 = 3  4 4 4 4  b) 5 + 4 = 5 + 4 = 9  10 10 10 10  Word problems  c) Find the sum of 7/15 and 4/15  7 + 4 = 7 + 4 = 11  15 15 15 15  d)  1 + 2 + 3 = 1  3 3 3  An activity from MK bk3 pg104 and 103. |
| Topic  Subtopic  content  **Evaluation** | **Lesson 17**  **Fractions**  **Subtraction of fractions**  **Examples**  3 - 2 = 3 - 2 = 1  10 10 10 10  Word problems  Find the difference between 13/16 and 9/16.  13 - 9 = 13 - 9 = 4  16 16 16 16  A boy had 5/6 of a cake. He ate 2/6 of it. What fraction remained?  5 - 2 = 5 - 2 = 3  6 6 6 6  An activity from MK bk3 pg108 |
| Topic  Subtopic  content  **Evaluation** | **Lesson 18**  **Fractions**  **Finding number of fractions in a whole**  **Examples**   1. How many halves are in 2 wholes?   ½ ½ ½ ½  = 4 halves  An activity from teachers’ collection |
| Topic  Subtopic  content | **Lesson 19**  **Fractions**  **Finding number of fractions in a whole**  How many quarters in 2 wholes?  ¼ ¼ ¼ ¼ = 8 quarters  ¼ ¼ ¼ ¼  How many thirds are in three wholes?  =9 thirds |
| Topic  Subtopic  content  **Evaluation** | **Lesson 20**  **Fractions**  **Fractions of a group**  **Examples**  What is a ½ of 8?  **Note:** The word ‘of’ changes to multiply  ½ of 8 = ½ x 8 = 1 x 8 = 8 = 8÷2 = 4  2 2  An activity from teachers’ collection |
| Topic  Subtopic  content  **Evaluation** | **Lesson 21**  **Graphs**  **Pictographs (**with a scale and without a scale)  **Example**  The pictograph below shows the number of books given to the five best pupils in different games. Study it and use it to answer the questions below.  = 2 books   |  |  | | --- | --- | | Moses |  | | Alex |  | | Jose |  | | Teo |  | | Harna |  |   **Questions**:  a) What is the scale on the graph?  b) How many books has Moses?  3 x 2 = 6 books  An activity from MK bk3 pg115 |
| Topic  Subtopic  Content  Evaluation activity | **Graphs**  Bar graphs  Example  6  5  4  3  2  1  0  Football Volleyball netball tennis   1. How many pupils play football? 2. Which game is played by most children? 3. How many more pupils play football than netball?   Activity from MK bk 3 pg 113-115 |
| Topic  Subtopic  Content  Evaluation activity | Lesson 24  Graphs  Pictographs  Example: the pictograph below shows the number of books given to five best pupils in different games. Study it and use it to answer questions that follow   |  |  | | --- | --- | | Moses |  | | Alex |  | | Josephine |  | | Teo |  | | Haruna |  |     Stands for 10 books  a)how many books did Josephine get?  b) how many books did Teo get?  c) How many more books did Haruna get than Alex?  d) Who has the least number of books?  Mk 2000 MT bk 3 pg 110-111 |
| Topic  Subtopic  Content  Evaluation activity | Lesson 25  Graphs  Pictographs  Drawing pictographs  Example: five girls were told to pick flowers from the garden and each picked the follow  Rose picked 6 flowers  Jamila picked 3 flowers  Annet picked 2 flowers  Sarah picked 6 flowers  **Questions**   1. Make a picture graph and show the information above 2. Which two girls picked the same number of flowers?   Activity in MK 2000 MTC Bk 3 pg 112 |

**SIR APOLLO KAGGWA SCHOOLS**

**MATHEMATICS - 2016**

**Breakdown for term III 2016**

1. Geometry
2. Naming and drawing shapes
3. Counting shapes
4. Measures
5. Days of the week
6. Telling time
7. Months of the year
8. Length

* Addition of metres and centimeters
* Subtraction of metres and centimeters
* Changing from metres to centimeters
* Changing from centimeters to metres
* Finding perimeter and area

1. Capacity

* Changing from ltires to centiliters
* Changing from centiliters to litres
* Addition of litres and centilitres
* Subtraction of litres and centiliters

1. Weight

* Estimation of weight
* Comparing weight
* Changing from kilograms to grams
* Changing from grams to kilograms
* Addition of kilograms and grams
* Subtraction of kilograms and grams

1. Money

* Addition of money
* Subtraction of money
* Shopping
* Multiplication of money
* Division of money

1. Algebra

* Finding unknown
* Addition
* Subtraction
* Multiplication
* Division
* Word problems

1. Collecting like terms

**SIR APOLLO KAGGWA SCHOOLS**

**Term III 2016**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| Topic  Subtopic  content  **Evaluation**  **Activity** | **Lesson 1**  **Geometry**  **Types of shapes**  **Definition**  Geometry is a branch of mathematics that deals with the study of shapes and their properties.  Types of shapes   |  |  |  | | --- | --- | --- | | **Shape** | **Name** | **Properties** | |  | Square | * All sides are equal * Has 4 sides | |  | Rectangle | * Two opposite sides are equal * Has 4 sides | | or | Trapezium | * Two opposite sides are parallel * Has 4 sides | |  | Pentagon | * Has 5 sides | |  | Rhombus | * All sides are equal * Has 4 sides |   An activity from Understanding Mathematics BK3 pg63 and MK bk3 p117. |
| Topic  Subtopic  content  **Evaluation activity** | **Lesson 2**  **Geometry**  **Counting shapes**  **Example**   1. Count the rectangles   = 3 rectangles   1. Count the triangles   = 3 triangles   1. Count the squares   = 3 squares  An activity from MK bk3 pg118 |
| Topic  Subtopic  content  **Evaluation**  **Activity** | **Lesson 3**  **Measures**  **Days of the week**  **Listing the days of the week**  Sunday  Monday  Tuesday  Wednesday  Thursday  Friday  Saturday  **Questions**   1. What is the first day of the week? 2. What is the last day of the week? 3. Which day of the week comes after the first day of the week? 4. Name the day of the week that comes before a day Muslims go for prayers?   **An activity from MK Bk 3 Pg 126** |
| Topic  Subtopic  content  **Evaluation activity** | **Lesson 4**  **Measures**  **Changing weeks to days**  **Examples**  How many days are there in 2 weeks?  1 week has 7 days  2 weeks have (2 x 7)  = 14 days  An activity from MK bk3 pg126 |
| Topic  Subtopic  content  **Evaluation** | **Lesson 5**  **Measures**  **Changing days to weeks**  **Example**  Convert 21 days to weeks  Solution 7 days make a week  21 days make 21 = 3 weeks  7  An activity from teachers’ own collection |
| Topic  Subtopic  content  **Evaluation** | **Lesson 6**  **Measures**  **Completing tables about days and weeks**  **Examples**   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **Weeks** | 1 | 2 | 3 | 4 |  |  | 7 | | **Days** | 7 | 14 |  |  | 35 | 42 |  |   1 x 7 2 x 7 35÷ 7  **1 - 7 days 14 5**  An activity from MK bk3 pg126 |
| Topic  Subtopic  content  **Evaluation** | **Lesson 26**  **Measures**  **Months of the year with their days**  **Listing months of the year**   1. January - 31 2. February - 28/29 3. March - 31 4. April - 30 5. May - 31 6. June - 30 7. July - 31 8. August - 31 9. September - 30 10. October - 31 11. November - 30 12. December - 31   Formulated questions by the teacher  Mk bk3 pg138 |
| Topic  Subtopic  content  **Evaluation** | **Lesson 9**  **Measures**  **Changing years to months**  **Example**  There are 12 months in a year. How many months are in 2 years?  1 year has 12 months  2 years have (2 x 12)  = 24 months  Mk bk3 pg139 |
| Topic  Subtopic  content  **Evaluation** | **Lesson 28**  **Measures**  **Changing months to years**  **Example**  How many years are in 36 months? (use repeated subtraction)  3 6  - 1 2 (1 year)  2 4  - 1 2 (1 year)  1 2  - 1 2 (1 year)  0 0  ∴ 3 years are in 36 months.  An activity from teacher’s own collection |
| Topic  Subtopic  content  **Evaluation** | **Lesson 10**  **Measures**  **Completing tables about months and years**  **Example**  Complete the table below   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Years** | 1 | 2 | 3 | 4 | …….. | | **Months** | 12 | 24 | 36 | ……. | 60 |   2 x 12 36 ÷ 12  = 24 months 3 years  An activity from MK bk3 pg139 |
| Topic  Subtopic  content  **Evaluation** | **Lesson 11**  **Measures**  **How old: (Finding one’s age)**  **Example**  Mike was born in 1989. How old was he in 1997?  1997  - 1989  0008 years  Mike was 8 years old  An activity from MK bk3 pg140 |
| Topic  Subtopic  content  **Evaluation** | **Lesson 13**  Measures  Telling time  Telling time in hours  Eg. Tell the time  It is 12 o’clock 01 12:00  MK bk 3 pg 127 |
| Topic  Subtopic  content  **Evaluation** | **Lesson 14**  Telling time  Telling time in a half past  e.g. tell the time  It is a half 8 o’clock or 8:30  MK bk 3 pg 129 |
| Topic  Subtopic  content  **Evaluation** | **Lesson 15**  Telling time  Telling time using a quarter past  e.g. tell the time    it is a quarter past 7 o’clock or 7:15  MK bk 3 pg 128-129 |
| Topic  Subtopic  content  **Evaluation** | **Lesson 16**  Telling time  Telling time using a quarter to  e.g. tell the time  it is a quarter to 12 o’clock or 11?45  MK bk 3 pg 132 |
| Topic  Subtopic  content  **Evaluation** | **Lesson 17**  Measures  Telling time  Telling time in minutes past  e.g. it is 20 minutes past 12 o’clock  MK 2000 bk 3 pg 133-134 |
| Topic  Subtopic  content  **Evaluation** | **Lesson 18**  Measures  Telling time  Telling time in minutes to  e.g. it is 5 minutes to 3 o’clock or 2:55    MK 2000 MTC bk 3 pg 136-137 |
| Topic  Subtopic  content  **Evaluation** | **Lesson 19**  Telling time  Word problem  e.g change 2 hours to minutes  2 hours = minutes 1hour = 60 minutes  1 hour = 60minutes or 2 hours = 60 x 2 = 120 minutes  2 hours = 60 x 2  60  X2  120  Convert 3 hours to minutes  Change 4 hours to minutes  How many minutes are there in 5 hours? |
| Topic  Subtopic  content  **Evaluation** | **Lesson 20**  Telling time  Word problem  Changing from minutes to hours  e.g. convert 120 minutes to hours  120 minutes = hours  60 minutes = 1 hour  120 minutes = 120 ÷ 60  120 = 2hours  60  Change 360 minutes to hours  Convert 120 minutes to hours |
| Topic  Subtopic  content  **Evaluation** | **Lesson 21**  Measures  Drawing and showing on a clock face  Represent  e.g. a half past 3 o’clock  a quarter to 8 o’clock  a quarter past 2 o’clock  MK 2000 MTC bk 3 pg 137 |
| Topic  Subtopic  content  **Evaluation** | **Lesson 22**  **Measures**  **Money**  **Recognition of money**  Notes Coins  1000 note 50 coin  50,000 note 100 coins  5000 note 200 coins  10000 note 500 coins  20000 note  Addition of money   1. (2)   Shs 200 shs 1000 + shs 500 + shs 100  Shs 50 shs 1000  Shs 250 shs 500  + shs 100  Shs 1600  An activity from MK bk3 pg176 and 178 |
| Topic  Subtopic  content  **Evaluation** | **Lesson 23**  **Measures**  **Money**  **Addition of money (word problems)**  Examples  I had 100 shillings. My father gave me 50 shillings more. How much money do I have altogether?  I had 100 shillings  Father gave me + 50 shillings  I have 150 shillings  Mk bk3 pg178 |
| Topic  Subtopic  content  **Evaluation** | **Lesson 24**  **Measures**  **Money**  **Subtraction of money (word problems)**  Example  Mukooza had shs 350. He gave away shs 100. How much money did he remain with?  Shs 350  - shs 100  Shs 250  Mk bk3 pg180 |
| Topic  Subtopic  content  **Evaluation** | **Lesson 25**  **Measures**  **Money**  **Shopping**  Example  The table below shows the price list in Mrs. Yiga’s shop. Use it to answer the questions that follow   |  |  | | --- | --- | | **Item** | **Price** | | A book | shs 100 | | A pencil | shs 250 | | An egg | shs 300 | | A bar of soap | shs 500 | | A kg of rice | shs 800 | | A pen | shs 200 |   **Questions**   1. How much does a pencil cost? 2. What is the cost of an egg and a pen?   Mk bk3 pg181 |
| Topic  Subtopic  content  **Evaluation** | **Lesson 26**  **Topic: Measures**  **Subtopic: Money**  **Content: Shopping with pictorial**  Example  A bag an apple A pencil a book    Shs 500 shs 800 shs 100 shs 300   1. What is the cost of 2 pencils?   Shs 100 x 2 = shs 200   1. What is the cost of 3 bags and 2 books?   Bags = 3 x 500 = shs 1500  Books = 2 x 300 = + shs 600  Shs 2100  From understanding mathematics bk 3 pg 73. |
| Topic  Subtopic  content  **Evaluation** | **Lesson 27**  **Measures**  **Money**  **Division of money**  Examples  Divide shs 1200 by 3  0400  3 1200 ∴ shs 1200 ÷ 3 = shs 400  0 x 3 = 0  12  4 x 3 = 12  00  MK bk3 pg187 |
| Topic  Subtopic  content  **Evaluation** | **Lesson 28**  **Measures**  **Money**  **Word problems involving division of money**  Example  Mr. Kasule had shs 800. He shared it equally between his two children. How much did each child get?    400  2 800  4 x2 = 8  000  2 x 0 = 00  00  ∴ Each child gets shs 400  Mk bk3 og187 |
| Topic  Subtopic  Content  Evaluation | **Lesson 29**  Measures  Length  Units for length  e.g centimeter , metres, decimeter, hectometers , kilograms  changing from metres to centimeter  e.g. convert 3 metres to centimeters  3m = cm  1m = 100cm  3m = 100  100  +100  300cm  Activity in MK 2000 Mtc bk 3 |
| Topic  Subtopic  Content  Evaluation | **Lesson 30**  Measures  Changing from centimeters to metre  Example  Change 200cm to metres  100cm = 1 m  200cm = 200cm = 2metres  100  Activity MK bk 3 |
| Topic  Subtopic  Content  Evaluation | **Lesson 31**  Measures  Addition of metres and centimeters  Examples  Add;  M cm  2 45  + 6 36  8 81  Activity in Mk 2000 Mtc bk 3 pg 14 |
| Topic  Subtopic  Content  Evaluation | **Lesson 32**  Measures  Word problem involving addition of metres and centimeters  Example;  A shopkeeper has 2m 38cm of nylon cloth and 6m 30cm of cotton cloth. What is the total length of the pieces of cloth.  M cm  4 38  + 6 30  10 68  Activity in MK 2000 bk 3 pg 148 |
| Topic  Subtopic  Content  Evaluation | **Lesson 33**  Measures  Subtraction of metres and centimeters  Example  M cm  6 50  - 4 30  2 20  Activity Mk 2000 MTC bk 3 pg 149 |
| Topic  Subtopic  Content  Evaluation | **Lesson 34**  Measures  Word problem involving subtraction of metres and centimeters  Example  Musa had a string of 8m 47cm. he cut off 2m 16cm. what length of the string was left?  M cm  8 47  - 2 16  6 31  Activity in Mk bk 3 pg 150 |
| Topic  Subtopic  Content  Evaluation | **Lesson 35**  Measures  Finding perimeters  Perimeter  Definition: perimeter is the total distance around any give figure  Example  Find the perimeter of the figure below  4cm  2cm  P = s+s+s+s  4cm +2cm+4cm+2cm  6cm +6cm  =12cm  Activity in MK bk 3 |
| Topic  Subtopic  Content  Evaluation | **Lesson 36**  Measures  Word problems involving finding perimeter of a shape  Example  A square garden measures 12m each side. Find its perimeter  12m  12m 12m  12m  P= s+s+s+s  = 12m+12m+12m+12m  = 24m + 24m  = 24m  + 24m  48m  Activity in MK MTC bk 3 |
| Topic  Subtopic  Content  Evaluation | **Lesson 37**  Measures  Finding area  Example ; counting squares  Area = number of square units  12sq units.  Activity in MK MTC bk 3 pg 152 |
| Topic  Subtopic  Content  Evaluation | **Lesson 38**  Measures  Finding area of the shaded part  Example; area = number of sq units  = 15 sq. units   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  |  |  |  | |  |  |  |  |  |  |  | |  |  |  |  |  |  |  | |  |  |  |  |  |  |  | |  |  |  |  |  |  |  |   Activity in MK MTC bk 3 pg 155 |
| Topic  Subtopic  Content  Evaluation | **Lesson 39**  Measures  Finding the area by multiplying  Example; area = number of sq. units  = (3 squares across)x(2sqaures down)   |  |  |  | | --- | --- | --- | |  |  |  | |  |  |  |   = 3 x 2  = 6 squares units or 6 sq. units  Example 2; area = length x width  8cm 8cm x 3cm  24cm2 or 24 sq. centimeters  3cm  Activity in MK bk 3 pg 155-156 |
| Topic  Subtopic  Content  Evaluation | **Lesson 40**  Measures  Word problem involving finding area  Example  Mary’s note book is 4cm long and 3cm wide  Find its area  4cm area = L x W  = 4cm x 3cm  3cm = 12cm2  Activity in Mk MTC bk 3 pg 157-158 |
| Topic  Subtopic  Content  Evaluation | **Lesson 41**  Capacity  Energy in our sub county  Example: How many ½ litres make a litre.  ½ litre + ½ litre = 1 litre  Therefore, 1 litre = 2 halves  New MK bk 3 pg 161 |
| Topic  Subtopic  Content  Evaluation | **Lesson 42**  Capacity  Changing litres to centilitres  1 litre = 100cl  3 litres = (3x100)cl  3litres = 300cl  Teachers collection |
| Topic  Subtopic  Content  Evaluation | **Lesson 43**  Capacity  Changing centiliters to litres  Example: How many litres are in 500cl?  1 litre = 100cl  ? = 500cl  500cl litres  100cl  = 5 litres  Teacher’s collection |
| Topic  Subtopic  Content  Evaluation | **Lesson 44**  Capacity  Adding litres and centiliters  Example; Add;  1 5 0 litres  + 3 5 0 litres  5 0 0 litres  Example 2  Add;  Litres centiliters  3 25  +2 60  5 85  Teachers’ collection |
| Topic  Subtopic  Content  Evaluation | **Lesson 45**  Capacity  Word problem involving addition of litres.  Mr. Lubega made 24 litres of juice and Kato made 78 litres. How much juice did the two men make?  2 4 litres  +7 8 litres  10 2 litres  Therefore, they made 102 litres of juice  New MK nk 3 pg 163 |
| Topic  Subtopic  Content  Evaluation | **Lesson 46**  Capacity  Subtraction of ltires and centiliters  Example:  2 4 7 litres   * 2 5 litres   2 2 2 litres |
| Topic  Subtopic  Content  Evaluation | **Lesson 47**  Measures  Weight  Definition : weight is the lightness or heaviness of an object.  Units measuring weight  Examples  Kilograms  Grams  Hectogram  Changing kilogram to grams  Example  Change 3kg to grams  1kg = 1000g 1kg = 1000g  3kg = 1000g 3kg = 1000g  1000g x 3  1000g 3000g  + 3000g  Activity in MK MTc bk 4 |
| Topic  Subtopic  Content  Evaluation | **Lesson 48**  Measures  Weight  Changing from grams to kilograms  Example  Change 2000g to kilograms  1000g = 1kg  2000g = 2000g kg = 2kg  1000g |
| Topic  Subtopic  Content  Evaluation | **Lesson 49**  Measures  Weight  Comparing weight  Who is heavier?  Example    Activity in MK MTC bk 3 pg 168 |
| Topic  Subtopic  Content  Evaluation | **Lesson 50**  Measures  Weight  Addition of kilograms and grams  Example  Kg g  4 250  +2 300  6 550  Activity in MK bk 3 pg 171 |
| Topic  Subtopic  Content  Evaluation | **Lesson 51**  Measures  Weight  Word problem involving addition of kilograms and grams  Example  Kato weighs 17kg 280 g. his sister weighs 20kg 250g. find their total weight.  Kg g  17 280  +20 250  37 530  Activity in MK bk 3 pg 172 |
| Topic  Subtopic  Content  Evaluation | **Lesson 52**  Measures  Weight  Subtraction of kilograms and grams  Example  Kg g  9 650  -7 200  2 450  Activity in Mk bk 3 pg 173 |
| Topic  Subtopic  Content  Evaluation | **Lesson 53**  Measures  Weight  Word problems involving subtraction of kilograms and grams  Example  Akot had 5kg 750g of salt. She gave 3kg 250g to her friend. How much salt was left?  Kg g  5 750  -3 250  2 500  Activity in Mk bk 3 pg 174 |
| Topic  Subtopic  Content  Evaluation | **Lesson 54**  Algebra  Finding missing numbers  Example  + 3 = 8  + 3 – 3 = 8 – 3  + 0 = 5  = 5  Activity Mk bk 3 pg 192 |
| Topic  Subtopic  Content  Evaluation | **Lesson 55**  Algebra  Word problems involving algebra  Example  Nakito had some books. She was given 12 more books. Now she has 20 books. How many books had Nakito had at first?  + 12= 20  + 12 – 12 = 20 – 12  + 0 = 8  = 8  Nakito had 8 books first  Activity MK bk 3 pg 192 |
| Topic  Subtopic  Content  Evaluation | **Lesson 56**  Algebra  Finding unknowns involving subtraction  Example  M – 5 = 3  M – 5+5= 3+5  M – 0 = 8  M = 8  Activity in Mk mtc bk 3 p 194 |
| Topic  Subtopic  Content  Evaluation | **Lesson 57**  Algebra  Word problems involving subtraction of unknowns  Example  Father had some mangoes. He gave 5 mangoes to his son. He remained with 7 mangoes. How many mangoes did he have at first?  -5 = 7  - 5+5= 7+5  - 0 = 12  = 12  He had 12 mangoes at first.  Activity in Mk mtc bk 3 pg 194 |
| Topic  Subtopic  Content  Evaluation | **Lesson 58**  Algebra  Finding missing numbers in multiplication  Example  X 2 = 10  x 2÷2= 10÷2  x 1 = 5  = 5  Activity in MK bk 3 pg 196 |
| Topic  Subtopic  Content  Evaluation | **Lesson 59**  Algebra  Finding missing numbers involving division  Example  6 ÷ =3  = 6÷3  = 2  Activity in Mk mtc bk 3 pg 197 |
| Topic  Subtopic  Content  Evaluation | **Lesson 60**  Algebra  Word problems involving finding missing numbers with division  Example  Auma had some bananas. He shared them among 6 boys. Each boy got 8 bananas. How many bananas had Auma had before?  ÷ 6 = 8  =8x6  =48  Auma had 48 bananas before  Activity in Mk mtc bk 3 pg 198 |
| Topic  Subtopic  Content  Evaluation | **Lesson 61**  Algebra  Collecting like terms  Example  Collect like terms  3 cups + 2 books + 4 cups + 3 books  3cups + 4 cups + 2 books + 3 books  7 cups + 5 books  Activity in MK mtc bk 4 |