**MINISTRY OF GENERAL EDUCATION**

**SCHEMES OF WORK**

**TEACHER’S NAME: GRADE**: **4. SUBJECT: MATHEMATICS. TERM: ONE. YEAR: 2018.**

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| **WK** | **TOPIC/**  **SUBTOPIC** | **SPECIFIC OUTCOMES (PSBAT)** | **T/L AIDS** | **REFERENCE** | **KNOWLEDGE** | **SKILLS** | **COMMENT** |
| **1**  **2**  **3** | **SETS** | Identify equivalent set s.  Identify subsets and use the subset symbol.  Apply sets t o solve  problem s in real life  situation | PPBKS  TG  counters e.g. stones and sticks | ZBEC syllabus  Pg  Revised syllabus 2013 pg  PPBK4 pg | Equivalent sets.  Subsets and the use of the symbol (is a subset of).  Applying sets to solve problems in real life situations (creation of order). | Interpretation of the meaning of sub s et. Identification of the subset symbol.  Communication through the use of subset symbol in set notation. |  |
| **4**  **5** | **NUMBERS &**  **NOTATION** | Read and write numbers u p to 1 00 0 00 0 000.  Express a number in expanded notation. | PPBKS  TG  counters e.g. stones and sticks | ZBEC syllabus  Pg  Revised syllabus 2013 pg  PPBK4 pg | Reading and writing numbers up  to 1 000 0 00 0 00 (Dr aw  attention of learners to the  number structure or repetition  i.e. 1, 10, 100, 1000, 1000 0).  Expressing a t e n digit number in expanded notation. | Communication through writing.  Presentation of  number in expanded notation.  Application of  numeration in real  life. |  |
| **6** | **ADDITION** | Add whole numbers with sums up to 1000000.  Apply addition to solve problems in real life. | PPBKS  TG  counters e.g. stones and sticks | ZBEC syllabus  Pg  Revised syllabus 2013 pg  PPBK4 pg | Adding whole numbers with sums up to 100000 in expanded form by regrouping ones, tens, hundreds, and thousands.  Adding whole numbers with sums up to 1000000 without regrouping.  Problems in real life situations (e.g. mass, distance, capacity, money up to K1000000). | Addition of up to  six digit numbers  using the concept  of 10, 100, 1000,  10000 and  100000 as a unit.  Application of addition in real life. |  |
| **7** | **SUB TRACTION** | Subtract whole numbers up to 1000000  Apply subtraction and addition to solve problems in real life. | PPBKS  TG  counters e.g. stones and sticks | ZBEC syllabus  Pg  Revised syllabus 2013 pg  PPBK4 pg | Subtracting whole numbers up  to 1000000 in expanded notation.  Subtracting whole numbers up to1000000 without regrouping.  Solving problems in real life.  Using subtraction and addition to solve problems involving mass, distance, capacity, money up to K1 000000. | Subtraction of up  to six digit numbers using the  concept of 10,  100, 1000, 10000 and 100000 as a unit.  Application of subtraction and addition in real life. |  |
| **8**  **9** | **MULTIPLICATION** | Multiply numbers by 10,  100 using short multiplication.  Multiply two and three by two digit numbers using vertical multiplication.  Apply the properties of zero (0) and one (1) in multiplication.  Apply multiplication to solve problems in real life. | PPBKS  TG  counters e.g. stones and sticks,  multiplication table | ZBEC syllabus  Pg  Revised syllabus 2013 pg  PPBK4 pg | Multiplying numbers by 10, 100 and 1000 using short multiplication (include multiples of 10 such as 20, 30 and 40).  e.g. 12x10 = 120 and 12x20 = 12x(10x2)=240  Multiplying two and three by two digit numbers using vertical multiplication.  Applying the properties of zero.  (0) and one (1) in multiplication  Problems in real life such as those involving mass, distance, capacity, money. | Multiplication of two and three digit by two digit numbers.  Accuracy in computations.  Application of place values. |  |
| 10 | GENERAL | REVISION OF THE TERM’S | WORK | REVISION OF | THE TERM’S | WORK |  |
| **11**  **12** | END OF TERM | T TESTING | AND | MARKING | OF TEST | PAPERS |  |
| **13** | PREPARATION | OF MARK SCHEDULES | AND | CLOSURE | OF | SCHOOLS |  |