**KASENGE GREENHILL SECONDARY SCHOOL**

**SCHEME OF WORK 2025**

**MATHEMATICS SENIOR ONE**

**TERM ONE**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **WK** | **PRD** | **TOPIC AND SUBTOPIC** | **LEARNING OUTCOME** | **COMPETENCY** | **METHODOLOGY** | **TEACHING AIDS** | **REFERENCES** | **REMARKS** |
| **1** | **2** | **INTRODUCTION AND ADMISSIONS**  **ORIENTATION WEEK** | | | | | | |
| **2** | **1** | **TOPIC: NUMBERS**  **SUBTOPIC 1: NUMBER BASES** | The learner should identify numbers in any base using the abacus  Should also covert from any base to base ten and vice versa | Bases start from base two up to base sixteen | Group work  Demonstration  Guided revision | Abacus  Pens  Books | New vision math book 1 learners book  Longhorn math book 1 learners book |  |
| **3** | **2** | **SUBTOPIC 2: WORKING WITH INTEGERS** | The learner should identify, read and write natural numbers as numerals in words | Learners differentiate between natural numbers and whole numbers | Group work  Demonstration  Guided revision | sets  Pens  Books | New vision math book 1 learners book  Longhorn math book 1 learners book |  |
| **4** | **2** | **SUBTOPIC 3:**  **FRACTIONS, PERCENTAGES AND DECIMALS** | The learner describes the different types of fractions, converts improper fractions to mixed fractions and vice versa | The learner converts fractions to decimals and vice versa and solve real life problems | Group work  Demonstration  Guided revision | Abacus  Pens  Books | New vision math book 1 learners book  Longhorn math book 1 learners book |  |
| **5** | **2** | **ACTIVITY OF INTEGRATION** | | | | | | |
| **6** | **1** | **RECTANGULAR CARTESIAN COORDINATE IN TWO DIMENSIONS** | The learner should be able to draw and label a Cartesian plane In two dimensions | The learner completes shapes on a coordinate grid and names them | Group work  Demonstration  Guided revision | set  Pens  Books | New vision math book 1 learners book |  |
| **7** | **2** | **ACTIVITY OF INTEGRATION** | | | | | | |
| **8** | **2** | **GEOMETRIC CONSTRUCTION SKILLS** | The learner should be able to draw perpendicular and parallel lines | The learner ably draws perpendicular bisectors and mediators of lines | Group work  Demonstration  Guided revision | Geometry set  Pens  Books | New vision math book 1 learners book |  |
| **9** | **2** | **GEOMETRIC CONSTRUCTION SKILLS** | The learner should be able to construct geometrical figures | The learner should be able to construct a triangle, square among others | Group work  Demonstration  Guided revision | Geometry set  Pens  Books | New vision math book 1 learners book  internet |  |
| **10** | **1** | **GEOMETRIC CONSTRUCTION SKILLS** | The learner should be able to construct geometrical figures | The learner should be able to construct a regular hexagon | Group work  Demonstration  Guided revision | Geometry set  Pens  Books | New vision math book 1 learners book  internet |  |
| 11 | 2 | **ACTIVITY OF INTEGRATION** | | | | | | |
| 12 | **END OF TERM ONE EXAMS** | | | | | | | |

**TERM TWO**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **WK** | **PRD** | **TOPIC AND SUBTOPIC** | **LEARNING OUTCOMES** | **COMPETENCY** | **METHODOLOGY** | **TEACHING AIDS** | **REFERENCES** | **REMARKS** |
| **1** | **REVIEW OF LAST TERM’S WORK AND CORRECTIONS FOR EOT EXAMS** | | | | | | | |
| **2** | **3** | PATTERNS AND SEQUENCE | The learner should recognize and generate number patterns | The learner uses a number machine to generate a sequence | Guided research  Group work  explanation | Charts  Learners books  Pens  calculators | New vision learners book 1  Internet  Teachers guide |  |
| **3** | **2** | PATTERNS AND SEQUENCE | The learner should recognize and generate number patterns | The learner uses a general rule to determine terms in a sequence | Guided research  Group work  explanation | Charts  Learners books  Pens  calculators | New vision learners book 1  Internet  Teachers guide |  |
| **3** | **1** | **ACTIVITY OF INTEGRATION** | | | | | | |
| **4** | **3** | BEARINGS | The learner should be able to identify the compass points, differentiates between scale drawing and sketch | The learner describes the direction of a place from another and applies bearings in real life situations | Guided research  Group work  explanation | Charts  Learners books  Pens  Calculators  Graph book | New vision learners book 1  Internet  Teachers guide |  |
| **4** | **2** | BEARINGS | The learner should describe bearing of a place from a given point | The learner shows the bearing graphically | Guided research  Group work  explanation | Charts  Learners books  Pens  calculators | New vision learners book 1  Internet  Teachers guide |  |
| **5** | **3** | **ACTIVITY OF INTEGRATION** | | | | | | |
| **5** | **3** | GENERAL AND ANGLE PROPERTIES OF GEOMETRIC FIGURES | The learner should be able to identify angles | Angles include supplementary, complementary, right and obtuse angles | Guided research  Group work  explanation | Charts  Learners books  Pens  Calculators  Graph book | New vision learners book 1  Internet  Teachers guide |  |
| **6** | **3** | GENERAL AND ANGLE PROPERTIES OF GEOMETRIC FIGURES | The learner should be able to solve angle problems involving angles at a point, straight lines etc | The learner solves using the angle properties and interior angle sum of a triangle | Guided research  Group work  explanation | Charts  Learners books  Pens  calculators | New vision learners book 1  Internet  Teachers guide |  |
| **6** | **2** | **MID TERM TWO EXAMS** | | | | | | |
| **7** | **3** | **ACTIVITY OF INTEGRATION** | | | | | | |
| **8** | **3** | DATA COLLECTION AND PRESENTATION | The learner should be able to understand the different types of data | Data is divided into grouped and ungrouped data | Guided research  Group work  explanation | Charts  Learners books  Pens  Calculators  Graph book | New vision learners book 1  Internet  Teachers guide |  |
| **9** | **2** | DATA COLLECTION AND PRESENTATION | The learner should be able to collect, present and analyze data | Data is presented using a bar graph, pie chart, and line graph etc. | Guided research  Group work  Explanation  Demonstration | Charts  Learners books  Pens  calculators | New vision learners book 1  Internet  Teachers guide |  |
| **9** | **2** | **ACTIVITY OF INTEGRATION** | | | | | | |
| **10** | **3** | REFLECTION | The learner should be able to identify lines of folding symmetry for different figure | The learner ably reflects shapes and objects | Guided research  Group work  explanation | Charts  Learners books  Pens  Calculators  Graph book | New vision learners book 1  Internet  Teachers guide |  |
| **10** | **2** | REFLECTION | The learner should be able to apply reflection in a Cartesian plane | The learner ably reflects shapes and objects on a Cartesian plane | Guided research  Group work  Explanation  Demonstration | Charts  Learners books  Pens  calculators | New vision learners book 1  Internet  Teachers guide |  |
| **11** | **2** | **ACTIVITY OF INTEGRATION** | | | | | | |
| **12** | **END OF TERM TWO EXAMS** | | | | | | | |

**TERM THREE**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **WK** | **PRD** | **TOPIC AND SUBTOPIC** | **LEARNING OUTCOMES** | **COMPETENCY** | **METHODOLOGY** | **TEACHING AIDS** | **REFERENCES** | **REMARKS** |
| **1** | **REVIEW OF LAST TERM’S WORK AND CORRECTIONS FOR EOT EXAMS** | | | | | | | |
| **2** | **3** | **EQUATIONS OF LINES** | The learner should be able to form linear equations with given points | Plotting and joining and finding a relationship in the form | Guided research  Group work  Explanation  Demonstration | Charts  Learners books  Pens  calculators | New vision learners book 1  Internet  Teachers guide |  |
| **3** | **3** | **EQUATIONS OF LINES** | The learner should be able to draw a graph when given equation of a line | The learner follows coordinates and generates equation of a line | Guided research  Group work  Explanation  Demonstration | Charts  Learners books  Pens  calculators | New vision learners book 1  Internet  Teachers guide |  |
| **4** | **3** | **ACTIVITY OF INTEGRATION** | | | | | | |
| **5** | **2** | **ALGEBRA** | The learner should be able to use letters to represent numbers | The learner obtains the elementary algebraic concepts | Guided research  Group work  Explanation  Demonstration | Charts  Learners books  Pens  calculators | New vision learners book 1  Internet  Teachers guide |  |
| **6** | **3** | **ALGEBRA** | The learner should be able to write statements in algebraic expressions | The learner obtains the elementary algebraic concepts | Guided research  Group work  Explanation  Demonstration | Charts  Learners books  Pens  calculators | New vision learners book 1  Internet  Teachers guide |  |
| **6** | **3** | **ALGEBRA** | The learner should be able to manipulate simple algebraic equations in one variable and solve them | The learner obtains the elementary algebraic concepts | Guided research  Group work  Explanation  Demonstration | Charts  Learners books  Pens  calculators | New vision learners book 1  Internet  Teachers guide |  |
| **7** | **2** | **ACTIVITY OF INTEGRATION** | | | | | | |
| **8** | **MID TERM THREE EXAMS** | | | | | | | |
| **9** | **2** | BUSINESS ARITHMETIC | The learner should be able to find profits and losses, and express them as percentages | Profit= selling price –buying price | Guided research  Group work  Explanation | Charts  Learners books | New vision learners book 1 |  |
| **9** | **3** | BUSINESS ARITHMETIC | The learner should be able to find interest, commission and discounts | Elementary business arithmetic competencies | Guided research  Group work  Explanation  Demonstration | Charts  Learners books  Pens  calculators | New vision learners book 1  Internet  Teachers guide |  |
| **10** | **ACTIVITY OF INTEGRATION** | | | | | | | |
| **11** | **END OF YEAR EXAMS** | | | | | | | |

**MADE BY: TR GALIWANGO WASSWA HUSSEIN NEWTON**

**SIGN OF HOD:…………………………………………………………………..**