**FORM 1**

**TERM 2  
MATHEMATICS.**

**TOPIC 9: ALGEBRAIC EXPRESSIONS.**

**TEACHER’S NAME: ………………………………………… TSC NO: …………….**

**SCHOOL/ INSTITUTION : ……………………………………………………………….**

**FORM: 1 TERM: 2 YEAR……………..**

**NUMBER OF STUDENTS…………………………….. SUBJECT: MATHEMATICS**

**TOPIC: ALGEBRAIC EXPRESSIONS.**

**SUB-TOPIC: REPRESENTING NUMBERS WITH LETTERS.**

**WEEK: 1 LESSON NUMBER: 1**

**DATE: …….. TIME: ……….**

**OBJECTIVES**: **By the end of the lesson the learner should be able to;**

-Use letters to represent numbers

LESSON PRESENTATION

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| **TIME** | **CONTENT** | **LEARNING ACTIVITIES** | **RESOURCES** | **REFERENCE** |
| 5 MINUTES | **INTRODUCTION**  Ask probing questions to test the learner’s knowledge of algebra. | Discussion.  Questions and answers. | -Chalk board/white board.  -A piece of chalk/ marker pen. | -Secondary mathematics KLB students book 1 page 80-81 |
| 30 MINUTES | **BODY DEVELOPMENT**  Lead the learners in representing numbers with letters. | -Discussions  -Doing exercises  -Guessing  -Demonstrations | -Counters  -Groups of items | -Discovering secondary mathematics book 1 page 85-86  -Secondary mathematics KLB students book 1 page 80-81 |
| 5 MINUTES | **CONCLUSION**  Giving assignment on the sub-topic. | Question and answers | -Chalk board/white board.  -A piece of chalk/ marker pen. | -Secondary mathematics KLB students book 1 page 80-81 |

SELF-EVALUATION:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**TEACHER’S NAME: ………………………………………… TSC NO: …………….**

**SCHOOL/ INSTITUTION : ……………………………………………………………….**

**FORM: 1 TERM: 2 YEAR……………..**

**NUMBER OF STUDENTS…………………………….. SUBJECT: MATHEMATICS.**

**TOPIC: ALGEBRAIC EXPRESSIONS.**

**SUB-TOPIC: SIMPLIFYING ALGEBRAIC EXPTRESSSIONS.**

**WEEK: 1 LESSON NUMBER: 1**

**DATE: …….. TIME: ……….**

**OBJECTIVES**: **By the end of the lesson the learner should be able to;**

Simplify algebraic expressions

LESSON PRESENTATION

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| **TIME** | **CONTENT** | **LEARNING ACTIVITIES** | **RESOURCES** | **REFERENCE** |
| 5 MINUTES | **INTRODUCTION**  Review the previous lesson. | Discussion.  Questions and answers. | -Chalk board/white board.  -A piece of chalk/ marker pen. | -Secondary mathematics KIE book 1 page 49-51 |
| 30 MINUTES | **BODY DEVELOPMENT**  -Discussions  -Doing exercises  -Grouping items together  -Adding objects  -Multiplying and dividing | -Discussions  -Doing exercises  -Grouping items together  -Adding objects  -Multiplying and dividing | -Counters  -Groups of items  -charts | -Discovering secondary mathematics book 1 page 86-88  -Secondary mathematics KLB students book 1 page 82-84  -Advancing mathematics book 1 page 74-75  -Secondary mathematics KIE book 1 page 49-51 |
| 5 MINUTES | **CONCLUSION**  Giving assignment on the sub-topic. | Question and answers | -Chalk board/white board.  -A piece of chalk/ marker pen. | -Secondary mathematics KIE book 1 page 49-51 |

SELF-EVALUATION:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**TEACHER’S NAME: ………………………………………… TSC NO: …………….**

**SCHOOL/ INSTITUTION : ……………………………………………………………….**

**FORM: 1 TERM: 2 YEAR……………..**

**NUMBER OF STUDENTS…………………………….. SUBJECT: MATHEMATICS**

**TOPIC: ALGEBRAIC EXPRESSIONS.**

**SUB-TOPIC: MULTIPLYING ALGEBRAIC EXPRESSIONS.**

**WEEK: 1 LESSON NUMBER: 1**

**DATE: …….. TIME: ……….**

**OBJECTIVES**: **By the end of the lesson the learner should be able to;**

Multiply algebraic expressions

LESSON PRESENTATION

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| **TIME** | **CONTENT** | **LEARNING ACTIVITIES** | **RESOURCES** | **REFERENCE** |
| 5 MINUTES | **INTRODUCTION**  Review the previous lesson. | Discussion.  Questions and answers. | -Chalk board/white board.  -A piece of chalk/ marker pen. | -Secondary mathematics KIE book 1 page 49-51 |
| 30 MINUTES | **BODY DEVELOPMENT**  -Discussions  -Simplification of algebraic expressions  -Multiplying algebraic expressions  -Grouping like items  -Doing exercises | -Discussions  -Simplification of algebraic expressions  -Multiplying algebraic expressions  -Grouping like items  -Doing exercises | -Groups of unlike items  -Groups of like items | -Discovering secondary mathematics book 1 page 87  -Secondary mathematics KLB students book 1 page 89  -Advancing mathematics book 1 page 75  -Secondary mathematics KIE book 1 page 49-51 |
| 5 MINUTES | **CONCLUSION**  Giving assignment on the sub-topic. | Question and answers | -Chalk board/white board.  -A piece of chalk/ marker pen. | -Secondary mathematics KIE book 1 page 49-51 |

SELF-EVALUATION:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**TEACHER’S NAME: ………………………………………… TSC NO: …………….**

**SCHOOL/ INSTITUTION : ……………………………………………………………….**

**FORM: 1 TERM: 2 YEAR……………..**

**NUMBER OF STUDENTS…………………………….. SUBJECT: MATHEMATICS.**

**TOPIC: ALGEBRAIC EXPRESSIONS.**

**SUB-TOPIC: DIVIDING ALGEBRAIC EXPRESSIONS.**

**WEEK: 1 LESSON NUMBER: 1**

**DATE: …….. TIME: ……….**

**OBJECTIVES**: **By the end of the lesson the learner should be able to;**

Divide algebraic expressions

LESSON PRESENTATION

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| **TIME** | **CONTENT** | **LEARNING ACTIVITIES** | **RESOURCES** | **REFERENCE** |
| 5 MINUTES | **INTRODUCTION**  Review the previous lesson on multiplying the algebraic expressions. | Discussion.  Questions and answers. | -Chalk board/white board.  -A piece of chalk/ marker pen. | Secondary mathematics KIE book 1 page 49-51 |
| 30 MINUTES | **BODY DEVELOPMENT**  -Discussions  -factorization  -Grouping like items  -Doing exercises  -Puzzles  -games | -Discussions  -factorization  -Grouping like items  -Doing exercises  -Puzzles  -games | -Groups of like items. | -Discovering secondary mathematics book 1 page 87-88  -Secondary mathematics KLB students book 1 page 89  -Advancing mathematics book 1 page 76 |
| 5 MINUTES | **CONCLUSION**  Giving assignment on the sub-topic. | Question and answers | -Chalk board/white board.  -A piece of chalk/ marker pen. | Secondary mathematics KIE book 1 page 49-51 |

SELF-EVALUATION:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**TEACHER’S NAME: ………………………………………… TSC NO: …………….**

**SCHOOL/ INSTITUTION : ……………………………………………………………….**

**FORM: 1 TERM: 2 YEAR……………..**

**NUMBER OF STUDENTS…………………………….. SUBJECT: MATHEMATICS.**

**TOPIC: ALGEBRAIC EXPRESSIONS.**

**SUB-TOPIC: USE OF BRACKETS IN ALGEBRAIC EXPRESSIONS.**

**WEEK: 1 LESSON NUMBER: 1**

**DATE: …….. TIME: ……….**

**OBJECTIVES**: **By the end of the lesson the learner should be able to;**

-Use of brackets in algebraic expressions

LESSON PRESENTATION

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| **TIME** | **CONTENT** | **LEARNING ACTIVITIES** | **RESOURCES** | **REFERENCE** |
| 5 MINUTES | **INTRODUCTION**  Review the previous lesson. | Discussion.  Questions and answers. | -Chalk board/white board.  -A piece of chalk/ marker pen. | -Secondary mathematics KIE book 1 page 52-53 |
| 30 MINUTES | **BODY DEVELOPMENT**  -Discussions  -Adding  -Subtracting  -Demonstrations  -Matching items  -Multiplying  -Dividing  -Doing exercises | -Discussions  -Adding  -Subtracting  -Demonstrations  -Matching items  -Multiplying  -Dividing  -Doing exercises | -Groups of like items/objects | -Discovering secondary mathematics book 1 page 88-89  -Secondary mathematics KLB students book 1 page 85  -Advancing mathematics book 1 page 77  -Secondary mathematics KIE book 1 page 52-53 |
| 5 MINUTES | **CONCLUSION**  Giving assignment on the sub-topic. | Question and answers | -Chalk board/white board.  -A piece of chalk/ marker pen. | -Secondary mathematics KIE book 1 page 52-53 |

SELF-EVALUATION:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**TEACHER’S NAME: ………………………………………… TSC NO: …………….**

**SCHOOL/ INSTITUTION : ……………………………………………………………….**

**FORM: 1 TERM: 2 YEAR……………..**

**NUMBER OF STUDENTS…………………………….. SUBJECT: MATHEMATICS.**

**TOPIC: ALGEBRAIC EXPRESSIONS.**

**SUB-TOPIC: FACTORIZATION IN ALGEBRAIC EXPRESSIONS.**

**WEEK: 1 LESSON NUMBER: 1**

**DATE: …….. TIME: ……….**

**OBJECTIVES**: **By the end of the lesson the learner should be able to;**

-Use factorization in algebraic expressions

LESSON PRESENTATION

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| **TIME** | **CONTENT** | **LEARNING ACTIVITIES** | **RESOURCES** | **REFERENCE** |
| 5 MINUTES | **INTRODUCTION**  Explain the meaning of factorization. | Discussion.  Questions and answers. | -Chalk board/white board.  -A piece of chalk/ marker pen. | -Secondary mathematics KIE book 1 page 57-58 |
| 30 MINUTES | **BODY DEVELOPMENT**  -Discussions  -Factorizing  -puzzles  -Adding  -Substitutions  -Doing exercises  -Playing games | -Discussions  -Factorizing  -puzzles  -Adding  -Substitutions  -Doing exercises  -Playing games | -Groups of like items/objects | -Discovering secondary mathematics book 1 page 88-91  -Secondary mathematics KLB students book 1 page 90  -Advancing mathematics book 1 page 81-83  -Secondary mathematics KIE book 1 page 57-58 |
| 5 MINUTES | **CONCLUSION**  Giving assignment on the sub-topic. | Question and answers | -Chalk board/white board.  -A piece of chalk/ marker pen. | -Secondary mathematics KIE book 1 page 57-58 |

SELF-EVALUATION:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**TEACHER’S NAME: ………………………………………… TSC NO: …………….**

**SCHOOL/ INSTITUTION : ……………………………………………………………….**

**FORM: 1 TERM: 2 YEAR……………..**

**NUMBER OF STUDENTS…………………………….. SUBJECT: MATHEMATICS.**

**TOPIC: ALGEBRAIC EXPRESSIONS.**

**SUB-TOPIC: SUBSTITUTION AND FACTORIZATION.**

**WEEK: 1 LESSON NUMBER: 1**

**DATE: …….. TIME: ……….**

**OBJECTIVES**: **By the end of the lesson the learner should be able to;**

-Substitute and factorize algebraic expressions.

LESSON PRESENTATION

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| **TIME** | **CONTENT** | **LEARNING ACTIVITIES** | **RESOURCES** | **REFERENCE** |
| 5 MINUTES | **INTRODUCTION**  Explain the meaning of substitution. | Discussion.  Questions and answers. | -Chalk board/white board.  -A piece of chalk/ marker pen. | -Advancing mathematics book 1 page 80& 84 |
| 30 MINUTES | **BODY DEVELOPMENT**  -Discussions  -Dividing  -multiplying  -Adding  -Subtracting  -Solving puzzles  -Substitutions  -Doing exercises  -Playing games | -Discussions  -Dividing  -multiplying  -Adding  -Subtracting  -Solving puzzles  -Substitutions  -Doing exercises  -Playing games | -Groups of like items/objects | -Discovering secondary mathematics book 1 page 91-94  -Secondary mathematics KLB students book 1 page 91-92  -Advancing mathematics book 1 page 80& 84 |
| 5 MINUTES | **CONCLUSION**  Giving assignment on the sub-topic. | Question and answers | -Chalk board/white board.  -A piece of chalk/ marker pen. | -Advancing mathematics book 1 page 80& 84 |

SELF-EVALUATION:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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