**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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