MATHEMATICS **GRADE SIX**

Unit Title: ALGEBRA **Term: TWO** **Unit: FIVE** **Duration: TWO WEEKS**

FOCUS QUESTION: How can I use symbols in solving real world problems?

ATTAINMENT TARGET	OBJECTIVES	KEY VOCABULARY/ CONCEPTS
• Interpret expressions and equations involving variables	**At the end of this unit, pupils will:** • Substitute in algebraic expressions with up to two variables. • Solve word problems using algebraic expressions and formulae. • Substitute in simple inequalities to make statements true. • Insert one of the symbols >, <, =, ≠, ≥, ≤ to make a true mathematical sentence.	Algebraic expression Variables Formulae Mathematical sentence

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ACTIVITY PLAN

ACTIVITIES/PROCEDURES	SKILLS	ASSESSMENT
Pupils will: 1. In pairs or groups, write worded problems and have their partners write algebraic Expressions or formulae for them (matching words with symbols) (a) e.g. The length of a rectangular garden plot is twice its width. If the perimeter is 36, find the measurements of the plot. Width is x, length is 2x Perimeter is $2x + x + 2x + x = 36$ etc. (b) The length of a rectangular field is 60 m and the width is 40 m. Find the Perimeter. L is length W is width Perimeter is $= 2L + 2W$ etc.	• Writing worded problems • Writing algebraic expressions • Simplifying expressions	• Worded problems • Algebraic expressions
2. Write numbers or expressions on cards. In groups, place two numbers or Expressions side by side and have partners place/insert one of the symbols ($>, <, =, \neq, \geq, \leq$) between them to make the statement true. E.g. In the statement [6 + 2] ___ [12 - 5] the symbols $>, \neq$, or $\geq$ can be used to Make the statement true.	• Substituting in expressions • Inserting symbols correctly	• Solution of expressions/equations • Correct usage of symbols • Mathematical statements
3. Write further inequalities (e.g. $X + 1 \geq 7$) and have partners substitute Values to make the inequalities true. Discuss why these values would make the Statements true.	• Solving inequalities	• True statements
Evaluation: Were pupils able to: • Write worded problems? • Write algebraic expressions? • Give solutions to expressions/equations? • Use symbols correctly? • Write true mathematical statements? • Substitute correct values to make inequalities true?	**Materials/Resources**: Activity cards Activity sheets	