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SECOND TERM E-LEARNING NOTE

SUBJECT: MATHEMATICS   **CLASS: SS2**

SCHEME OF WORK

WEEKS	TOPICS
1	Inequalities – Review of Linear Inequality in One Variable and Graph of Linear Inequality.
2	Inequalities in Two Variables: Graphs of Linear Inequalities in Two Variables; Maximum and Minimum Values of Simultaneous Linear Inequalities.
3	Application of Linear Inequalities in Real Life; Introduction to Linear Programming.
4	Algebraic Fractions: Simplification; Operation of Fractions.
5	Algebraic Fractions: Substitution in Fractions; Simultaneous Equations Involving Fractions; Undefined Fractions.
6	Review of the First Half Term Work an Periodic Test.
7	Logic: Meaning of Simple and Compound Statements; Logical Operations and the Truth Tables; Conditional Statements and Indirect Proofs.
8	Deductive Proof of Circle Geometry.
9	Circle Theorems: Theorem and Proofs Relating to Circle Theorem.
10	Tangent from an External Point.

REFERENCE BOOKS
1. New General Mathematics SSS2 by M.F. Macraeetal.
2. Essential Mathematics SSS2 by A.J.S. Oluwasanmi.

WEEK ONE   **DATE: _____**
TOPIC: LINEAR INEQUALITIES IN ONE VARIABLE
CONTENT
     -Linear Inequalities
     -Inequalities with Reversing Symbols
     -Representing the Solutions of Inequalities on a Number Line and on Graphs
-Combining Inequalities

LINEAR INEQUALITIES
There are different signs used in inequalities.

> Greater than

< Less than

≥ Greater or equal to

≤ Less or equal to

= Not equal to

Example 1

Consider a bus with x people in it.

(a)If there are 40 people then x= 40, this is an equation not inequality.☐

(b)If there are less than 30 people in the bus then $x < 30$ where $<$ means less than ; this is an inequality. It literally means that the no of people in the bus is not up to 30.

Example 2

Find the range of value of x for which

$$7x - 6 \geq 15$$
$$7x \geq 15 + 6$$
$$7x \geq 21$$

$x \geq 3$

Example 3: Solve the inequality

$$12x - 7 \geq 13 + 2x$$
$$12x - 2x \geq 13 + 7$$
$$10x \geq 20$$
$$x \geq 2$$

Evaluation

Solve the…