HIGHLAND HIGH SCHOOL

LESSON PLAN

NAME: *A. Daka*
CLASS: *10 O*
SUBJECT: *Mathematics*
TOPIC: *Processes of Algebra*
SUB – TOPICS: *Expansion of Algebraic Expressions.*
REFERENCES: *Mathematics 10*
OBJECTIVES: *At the end of the lesson, PSBAT:*
(a) Expand and simplify Algebraic Expressions
(b)
TEACHING AIDS: Textbook and Chalkboard.

DATE: *23 - 05 - 08*
TIME: *07:30hrs*
DURATION: *80 minutes*

CONTENT	TIME PHASE	TEACHER'S ACTIVITY	PUPILS ACTIVITY/EXPECTED RESPONSE	METHOD
Introduction	*5 – 10 minutes*	*- Teacher introducing the topic by asking pupils to define Expansion.*	*- Answering orally:* *- Note taking.*	*. Question and answer.*
Lesson Development **Expansion**	*30 minutes*	*- Teacher explaining that each term within the brackets is multiplied by the quantity outside the brackets and simplified using the Distributive law* e.g. (a) 2(x - 3) = 2x – 6 . (b) - 3(x – 2) = - 3x + 6y When simplified, 2(b + 1) – 2b gives 7x – 3(x – y) = Expand the following: (a) 3(x + 1) (b) 4(2a – b) (c) 8(m – 3n) (d) 3a + 4(a – b) (e) 2(x + y) – (x – y) 4(x+y) =4x+4y 2(a+2b) 3(2x-3) -5(m-5n) $3b^2(2a+8b)$ 2x(y+z)+3y(x+z) = 2(a + b) = 4(2x – y) = a(b + c)	*- Pupils to participate in solving examples on the chalkboard.* Answers: *- Writing notes.*	*Teacher exposition* Chalkboard with teacher exposition.
Assessment	*40 minutes*	*Class Work Ex 2a P64* *- Teacher writing questions on the chalkboard.* 1. 3(a + b) 2. 2(2x – 3) 3. $-5x(3x^2 – x – 1)$ 4. xy - x(y + c) 5. 2x(x + y) + 3y(x + y) 6. $9a^2$ - 2a(4b + a) + 4b 7. ab + bc – 3b(a + c) 8. 6a + 4(a – 3a) 9. Subtract 3x(2 – y) from 2(8x + 5y) 10.Find the sum of 2(a + 2b) and 3a(2 – b) *- Then going round giving individual attention to pupils needing help.*	*Doing the exercise individually in their notebooks.*	*Chalkboard*

EVALUATION:

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