

HIGHLAND HIGH SCHOOL

LESSON PLAN

NAME: A. Daka

CLASS: 10 O

SUBJECT: Mathematics

TOPIC: Factorisation

SUB – TOPICS: Difference of Two Squares

REFERENCES: Mathematics 10

OBJECTIVES: At the end of the lesson, PSBAT:

(a) Factorise an expression like $a^2 - b^2$

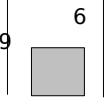
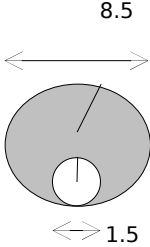
(b) Use the identity $a^2 - b^2 = (a + b)(a - b)$ to evaluate expressions like $55^2 - 45^2$

DATE: 23 - 05 - 08

TIME: 07:30hrs

DURATION: 80 minutes

TEACHING AIDS: Textbook and Chalkboard.

CONTENT	TIME PHASE	TEACHER'S ACTIVITY	PUPILS ACTIVITY/EXPECTED RESPONSE	METHOD
Introduction	5 - 10 minutes	- Teacher showing on the chalkboard a diagram on areas of squares and rectangles and asking pupils to find areas of shaded parts. - Telling pupils that the expression $a - b$ is known as Difference of Two Squares	Answering orally and note taking.	. Question and answer.
Lesson Development DIFFERENCE OF 2 SQUARES	30 minutes	- Teacher explaining to pupils how to factorise expressions like (i) $a^2 - b^2$ (ii) $2a^2 - 8b^2$ 4 4 (iii) $a^2 - b^2$ - Then giving Examples Factorise 1. $x^2 - 4$ 2. $m^2 - n^2$ 3. $2x^2 - 18$ - Telling pupils that Factorising Difference of 2 Squares can be used to evaluate arithmetical expressions, e.g. 4. $46^2 - 44^2$ 5. $3.6^2 - 6.4^2$ 6. Calculate the area of the unshaded part 	- Pupils to participate in solving examples on the chalkboard. Solutions: - Writing notes.	Teacher exposition
Assessment	40 minutes	- Teacher giving Class Work on the chalkboard Ex8a/b P75 Factorise each of the following. 1. $x^2 - y^2$ 2. $p^2 - 16$ 3. $a^2 - 1$ 4. $36 - 25y^2$ 5. $3m^2 - 27$ 6. $x^2 - 1/9$ 7. $49 - x^2$ Evaluate 8. $97^2 - 3^2$ 9. $64^2 - 36^2$ 10. Calculate the area of the unshaded part between the 2 circles  Then going round giving individual attention to pupils needing help.	Doing the exercise individually in their notebooks.	Chalkboard

EVALUATION:

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