

HIGHLAND HIGH SCHOOL LESSON PLAN

NAME: A. Daka

DATE: 17 - 06 - 10

CLASS: 10 O

SUBJECT : Mathematics
Pupils: 47

TIME: 11:45

No. of

TOPIC: Algebraic Fractions

DEPT: Mathematics

REFERENCE/AIDS: Mathematics 10 and Chalkboard.

LESSON OBJECTIVES: At the end of the lesson, PSBAT:

(a) Simplify algebraic fractions.

(b) Get at least 7 out of 10

TIME PHASE	CONTENT	TEACHER'S ACTIVITY	PUPIL'S ACTIVITY	METHODOLOGY
5 - 10 minutes	Introduction	- Telling pupils that Algebraic Fractions contain at least one letter, e.g. $\frac{a}{x^2 - y^2}$, $\frac{4}{2x + 1}$	- Pupils to pay attention.	Question and answer.
30 minutes	Lesson Development Algebraic Fractions	- Explaining that Algebraic Fractions can be simplified to their lowest terms by factorising either the numerator or the denominator or both. - Giving Examples Simplify each of the following 1. $\frac{2x}{5x + xy}$ 2. $\frac{x - 2}{x^2 - 4}$ 3. $\frac{x + 1}{x^2 + 2x + 1}$ 4. $\frac{2y^2 + y - 1}{2y^2 + 5y - 3}$	- Pupils to participate in solving examples on the chalkboard. Answer: 1. $\frac{2x}{x(5 + y)}$ 2. $\frac{2}{5 + y}$ 2. $\frac{x - 2}{x^2 - 2^2}$ = $\frac{x - 2}{(x - 2)(x + 2)}$ = $\frac{1}{x + 2}$ 3. $\frac{x}{x^2 + 2x + 1}$ + 1	Teacher exposition Chalkboard with teacher exposition.

			$\frac{+1}{(x+1)} = \frac{x}{(x+1)}$ $= \frac{1}{x+1}$ $4. \frac{(y+1)(2y-1)}{(2y-1)(y+3)}$ $= \frac{y+1}{y+3}$	
40 minutes	Evaluation	- Giving Class Work Ex 9 P76 Simplify each of the following. $\frac{3a}{15b}$ $\frac{xy^2z}{x^2yz}$ $\frac{b^2 - 9}{b + 3}$ $\frac{3}{3x + 6}$ $\frac{2p + 8}{3p + 12}$ $\frac{p^2qr^2}{p^3q^2r}$ $\frac{x^2 - 4}{3x^2 - 5x - 2}$ $\frac{x + y}{4x + 4y}$ $\frac{m + 2}{m^2 + 3m + 2}$ $\frac{x^2 + 14x + 49}{x^2 + 2x - 35}$	Doing the exercise individually in their notebooks.	Chalkboard

EVALUATION:

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