Plot 48 Muwaire Rd (behind IHK Hospital)
P.O.BOX 5337, KAMPALA - UGANDA
Tel: 256783111908
Email: info@stagnes.co.ug
Website: www.stagnes.co.ug

P.4 Mathematics

LESSON ONE WEEK EIGHT
LESSON I
TOPIC: ALGEBRA
SUBTOPIC: Equations with and without letters

CONTENT : Solving equations involving addition.

Examples: (a) $\square + 3 = 9$

$\square + 3 - 3 = 9 - 3$

$\square = 6$

(b) $P + 5 = 11$

$P + 5 - 5 = 11 - 5$

$P = 6$

ACTIVITY:

Solve the following equations

1. $\square + 6 = 13$
2. $\square + 8 = 12$
3. $\square + 4 = 9$
4. $\square + 8 = 17$
5. $\square + 5 = 10$
6. $\square + 7 = 19$

LESSON 2

TOPIC : ALGEBRA
SUBTOPIC: Solving equations involving subtraction
CONTENT : Finding the value of the unknown

Examples: (a) $\square - 4 = 6$

$\square - 4 - 4 = 6 + 4$

$\square = 10$

(b) $y - 7 = 21$

$y - 7 + 7 = 21 + 7$

$y = 28$

ACTIVITY:

Solve the following equations

1. $\square$ - 8 = 3
2. $\square$ - 5 = 4
3. $\square$ - 3 = 1
4. $\square$ - 7 = 2
5. $\square$ - 14 = 7
6. $\square$ - 17 = 6

LESSON 3
TOPIC: ALGEBRA
SUBTOPIC: Collecting like terms
Example:

Simplify the following

(a) $7x + 8x + x$

$= 16x$

(b) $5c + 4c + 3c$

$= 12c$

(c) $p + 4 + p + 6$

$p + p + 4 + 6$

$2p + 10$

ACTIVITY:

Collect the like terms and simplify where necessary

1. a + 2a + 3a
2. 6a - 4a + 2 + 3
3. 5x + 4x - 6x
4. x + 6 + 4x + 4
5. 4b + 6b + 5b + b
6. 3n + 7 + n - 4
7. 8p + p - 9p

LESSON 4

TOPIC : ALGEBRA
SUBTOPIC: Collecting more like terms
Example:

(a) Collect like terms
= x + y + x + 3y + x
= x + x + x + y + 3y
= 3x + 4y

(b) Collect like terms
= 8b + 2p + 12b + 3p
= (8b + 12b) + (2p + 3p)
= 20b + 5p

(a) Collect like terms
= 9d + 4c – 3c
= 9d + c

ACTIVITY:

Collect like terms and simplify where necessary

1. 8t + 4x – 6t + x
2. 6y – 4t + 3x + 13
3. 2x + 5q + 3 + 4
4. 6a – 4p + 2 + 3
5. 10n + 3m + 11m
6. 14c – 4c – 5c

LESSON 5

TOPIC : ALGEBRA
SUBTOPIC: Substitution
Example:

(a) If P = 3 and m = 6, find the value of

(i) P + 4
= 3 + 4
= 7

(ii) 2p = 2 x p
= 2 x 3
= 6

(iii) p + m
= 3 + 6
= 9

Activity:

Given that a = 2, b = 3 and c = 4. Find the value of the following;

1. a + 2b
2. 11a + b
3. b + 3c
4. 4a + 3b + c
5. a + b – c
6. 11a – b + c