A lesson Plan on Further Mathematics for week 3 and 4 1st term 2023/2024 session

Subject: Further Mathematics

Topic: The straight-line

Class: SS 2

Average Age: 15 – 16 years

Average No. of Learners: 25

Duration: 40 minutes each

Date: Monday 4th to Friday 15th September, 2023

Lesson Content / KUW

1. Gradient of a line
2. Distance between points

Instructional Objectives: By the end of this lesson learners will be able to:

Cognitive Domain (Communication Language and Literacy)

* Explain the gradient of a line
* Explain the distance between points
* Vocabulary development: intercept, coordinates, gradient, slope, y-axis, x-axis, etc

Psychomotor Domain CD/PD

1. Measure the gradient of a slope

Affective Domain PSED/PSRN:

Solve problems

Scriptural Integration:

Exodus 4:2

Character Integration

Responsibility: perseverance, hard-work

Instructional Materials: white board, marker, lesson plan, text book: Adegoke et al Further Mathematics project 2

Previous Knowledge / Entry Behaviour

Learners can measure the slope of depth

Lesson Rationale

To educate learners on the use of coordinates to find gradient and distance between poits

Instructional Procedure

Set induction: the facilitator set induce the learners by asking them the meaning of straight-line

Step 1: **Gradient of a line**

**Activity**

FPA: The facilitator leads the learners in defining the gradient of a line

LPA: The learners take note. Learners find the gradient of a line

Definition

The gradient of a line is measured by moving from one point to another. The gradient of AB from A to B is measured, in whichever direction of AB the gradient is measured.

Evaluation

Find the area of the triangle whose vertices are: (2,4), (6,3) and (9,7).

Critical Thinking

How can coordinate geometry be applied in the commercial industry?

Real life application of lesson

Coordinate geometry can be applied in the building industry

Summary

Coordinate geometry is the aspect of mathematics that make use of the x and y axes

Assignment

Find the area of the quadrilateral whose vertices are (3,7), (5,- 6), (7,0) and (-4,0)