LESSON PLAN

WEEK 9

Name of Teacher: Peter Ekeocha

Class: Year 7 & 8

Average age of learners: 11- 12years

Gender: Mixed

Subject: Mathematics

Topic: Area and Perimeter of dimensional shapes (Triangle)

Duration: 40mins

Date: 4th - 8th March, 2024

CONTENT:

RATIONALE: The knowledge acquired will enable the learners to understand the concept of area and perimeter of a triangle.

PERFORMANCE OBJECTIVES: By the end of the lesson, given an infographic of area and perimeter of triangle, chart of concept mapping as well as videos displaying of area and perimeter of a triangle, the learners should be able to:

1. **Cognitive Domain (Minds-on):**
2. Solve correctly, area and perimeter of a triangle.
3. Identify ways of solving area and perimeter of a triangle.
4. Differentiate by solving area and perimeter of a triangle.
5. **Affective Domain (Hearts-on):**
6. Show willingness in the lesson by analyzing correctly the use of area and perimeter.
7. Appreciate the lesson by answering the teacher’s questions with keen interest.
8. **Psychomotor domain (Hands-on)**
9. Use infographic to vividly represent the area and perimeter of a triangle, without any mistake.
10. Implore a concept map to show area and perimeter at a glance without mistakes.
11. **Interpersonal domain:** (Learners’ ability to interact with others and share knowledge):
12. Discuss elaborately in groups and share knowledge and experiences acquired.

**ENTRY/ENTERING BEHAVIOUR:** Learners are familiar with area and perimeter.

**INSTRUCTIONAL MATERIALS:** Laptop/desktop, projector, videos, printed images, charts, marker, whiteboard and coloured cardboard paper.

**INSTRUCTIONAL PROCEDURE:** Check table below.

**TABLE: INSTRUCTIONAL PROCEDURE**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Duration** | **Content Development** | **Teaching Strategies** | **Instructional Strategies** | **Specific Instructional Materials in Use** | **Teacher’s Performance Activities** | **Students’ Performance Activity** | **Learning Point** |
| 5 mins | Asking Provocative questions | Set Induction | Brainstorming | Marker, Whiteboard | The teacher divides the learners into groups of three members each to brainstorm and identify different parts | Learners answer the probing questions that the teacher has given them after brainstorming. | Learners have listed the approach of solving area and perimeter. Methods of solving area and perimeter has been learnt |
| 14mins | Identification of area and perimeter | Use of examples and illustrations, planned repetition, stimulus variation, questioning and reinforcement. |  |  | The teacher uses a slide to show an infographic of the area and perimeter, plays videos showing the different ways of solving area and perimeter | The learners identify the ways of solving area and perimeter, pay attention to the teacher, generate new ideas and integrate them with other concepts | The learners have learnt how to Identify area and perimeter. |
| 8mins | Differentiating between area and perimeter |  |  |  |  |  |  |
| 8mins | Requirements for area and perimeter. | Use of examples and illustrations | Role-play, brainstorming | Coloured cardboard papers |  |  |  |

**EVALUATION:** The teacher evaluates the lesson using the following questions

1. Identify the area and perimeter of a triangle.
2. Identify the various ways of solving area and perimeter of a triangle.
3. Differentiate by solving area and perimeter of a triangle.
4. Analyse ways of solving area and perimeter.
5. Using a concept mapping, show area and perimeter of triangle at a glance.

**CLOSURE:** The teacher summarizes the lesson by guiding the learners, by going through the main points of the lesson, discussing the area and perimeter of triangle. The teacher gives the learners some time to reflect on what they have learnt, ask questions and as well take corrections.

**CLASS FUN:**

1. The area of a triangle is 132cm2. What is the base of the triangle if its height is 12cm?
2. Find the area of triangle

16cm

14cm

**ASSIGNMENT (HOMEWORK):**

1. Find the area of each of the following triangles

1. b.

10cm 8cm

15cm 12cm

**REFLECTION ON LESSON:**

**CONTENT**

**. Identification of area and perimeter**

**. Area of a triangle**

**. Perimeter of a triangle**

**Identification of area of a triangle**

Area of triangle is half of the base “b” multiplied by the height “h” where “b” is the distance along the base, “h” is the height (measured at right angle to the base).

**Area of a triangle**

Example 1

What is the area of the triangle below:

A

12cm

B C

22cm

Solution

Area=

b=22cm, h=12cm

A =

= 132cm2

Example 2

The area of a triangle is 120cm2. Find its base if the height of the triangle is 10cm.

**Solution**

Area of triangle=

A =

= =

2= b

b=

= 24cm

**Perimeter of a triangle**

Example 3

Find the perimeter of the shape below

3cm 4cm

5cm

Solution

Perimeter of a triangle= 3cm

= 12cm

Example4

Find the perimeter of a triangle whose units are: 12m, 35m and 18m

Solution

Perimeter =

P= 64m

Example 5

The perimeter of a triangle is 81cm. Its other three units: 35cm, , find the unknown side?

**Solution**

Perimeter=

81cm=

= 81

= 14

  