LESSON PLAN

Subject: Mathematics

Unit: Polygon

Topic: How to find the sum of the interior angle of nth polygon?

Class: 9th

1. Learning points.

How to find the sum of the interior angle of nth polygon?

2. Learning outcomes,

To facilitate the students,

- 1. To recall the definition of polygon
- 2. To recognize the different types of polygon.
- 3. To recognize how the polygon is divided into geometrical figures when they draw the diagonal.
- 4. To recognize to find the sum of the interior angle of nth polygon:
- Management of learners.
 Group learning
 Group type: learning together
- 4. Instructional strategies: Indo detective method
- 5. Resources required Powerpoint presentation, geogebra, image of different types of polygon.
- Evidence for learning Test.

What teacher does	What students will do
Engage	
 Teacher greets students 	Students greets teacher.
 Today we will learn some 	
interesting topic in	*
mathematics i will ask questions	Ok mam
and there will be a activity also.	AND WINDOWS WINDOWS WIND
shall we start the class today.	· · · · · · · · · · · · · · · · · · ·
Give me some examples for	

plane figures:
Ok students oberseve the figure
carefully and note down the
geometrical shapes of the

figures on themWhat is the common thing you observed here?

- If the geometrical figures has three sides and three angles what it is called as?
- If the geometrical figures has four sides and four angles what it is called as?
- If the geometrical figures has more than four sides and four angles what it is called as?
- Now tell me what is polygon?
- Ok what is the sum of the interior angle of triangle?
- And what is the sum of the interior angle of quadilateral?
- Ok now tell me what is the sum of the interior angle of the rith polygon is ?

pictures on screen observe it, note

triangle, square, quadrilateral, and so on.

Ok mam

No response.

Triangle.

Quadrilateral.

Polygon.

It is a closed geometrical figure bounded by three or more line segment.

180.

360

No response.

Statement of aim: in todays class we will study "how to find the sum of the interior angle of nth polygon?"

What teacher does	What students will do
We shall learn this answer through an	Ok
activity.	
	Students will make group.
Now make a group of 4 to 5 members.	The State of State of the State of the
	THE WAY TO SHEET THE WAY
Now, listen students, I will show	Ok mam

down in books then I will give time discuss in group and answer to my question.

Explore:

in geogebra
Observe each stage

Express:

Each one of you have observed each stage start discuss in group what you have observed.

After few minutes teacher ask each group to tell what they have observed?

Answer will be elicited from each group.

- What type of figure it was ?
- Then what happened?
- What figures you identified inside the polygon after drawing diagonal?

Observes each stage

Students starts discussion.

In ex:1,ex:2, ex:3 1st it is pentagon after drawing the diagonal we got three triangles.

2nd it is hexagon after drawing the diagonal we got four triangles.
3rd it is heptagon after drawing the diagonal we got five triangles.

(Answers are shown in table constructed in geogebra)

е	Type of	Number of	Number of	Number of	ICT Used
X	figure	sides	diagonals	triangles	The State of
1	pentagon	5	2	3	geogebra
2	Hexagon	6	ن را ا	4	geogebra
3	Heptagon	7	4	5	geogebra

What students will do
There is a difference of two.
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In the case of the the case of the case of the
5-3=2,6-4=2,7-5=2.

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Ok if a polygon has n sides and if all possible diagonals are drawn from any fixed vertex what we will get? What is the sum of the interior angle of triangle is?	(n – 2) triangles
Ok now tell me what is the sum of the interior angle of nth polygon ?	(n-2)x 180.
Excellent In this group activity we learnt "how to find the sum of the interior angle of nth polygon?"	
Expand: How many triangles we will get in the decagon?	8
How will you find the sum of the interior angle of this polygon.	By using Angle Sum Property of a polygon.
Evaluate: Now the group activity ended here. To test you people individually, I will give outline figure, find the sum of the interior angle of the given polygon.	
Find the sum of the interior angle of nangon?	$(9-2) \times 180 = 7 \times 180 = 1240.$