

APPENDIX

Lesson No.: 01

Topic: concept and related concepts

Sub-topic: Plane figures and solid shapes

Phases of 5E model and teaching learning process

1) Engagement:

Teacher asked the students to name the several objects that have different

shapes that they are using in their daily life

2) Exploration:

To explore, the students were divided into six groups. One plane paper

was given to each group and they were asked to write the name of several

objects and draw it shape and comment on it about their shape in two in

two lines.

3) Explanation:

Now from each group one student was selected and was asked to present

their work before other group.

4) Elaboration:

In this phase there was complete two way interactions between student

and teacher. Teacher asked several questions to students and also teacher

elaborated students answers about size, vertices, line segments etc.

5) Evaluation:

To evaluate, teacher asked questions like what are the different types of

shapes and where we can find such shapes?

VII

Lesson No.: 02

Topic: concept and related concepts

Sub-topic: Two dimensional figure

Phases of 5Emodel and teaching - learning process

1) Engagement:

Teacher asked two students to draw any figure on board. Students goes to

draw the figure.

2) Exploration:

[For example student have drawn figure on tree]

Teacher asked what is the difference between this figure and real tree.

Students were given five minutes to write their views on plane paper.

3) Explanation:

Randomly 4-5 students were selected say their views.

4) Elaboration:

In this phase, there was two way interactions between teacher and student

and teacher gave various examples of tow dimensional figures and three

dimensional figure.

5) Evaluation:

Teacher gave worksheet to each students to match the two dimensional

and three dimensional figures from column A and column B.

Lesson No.: 03

Topic: concept and related concepts

Sub-topic: Geometrical shapes uses in our day to day life.

Phases of 5E model and teaching learning process

1) Engagement:

Teacher made group of six students and asked them to draw the figures of blackboard, wall watch, National flag, ruler, chalk, water droplets etc.

2) Exploration:

Teacher asked several questions like:

- a) Why shape of the water droplet is spherical in nature?
- b) Why shape of chalk and pen is cylindrical?
- c) Why shape of plants root (bottom) is cone type?

3) Explanation:

One student from each group was called and their answers were discusses among all the group and teacher gave more explanation on it.

4) Elaboration:

Teacher elaborated the content with various other types of questions and where we can find the uses of their shapes.

5) Evaluation:

- a) Teacher evaluate the students by asking the following questions:
- b) Write the name of alphabet which have spherical shape?
- c) Write the name of letter which have triangular shape?
- d) What is the shape of our blood veins and arteries?

IX

Lesson No.: 04

Topic: Concept and related concepts

Sub-topic: Faces, Edges and Vertices

Phases of 5E model and teaching-learning process.

1) Engagement:

Teacher asked students do you remember the faces, vertices and edges of

solid shapes which you studied earlier? Teacher asks students to draw the

figure and name its faces, edges and vertices.

2) Exploration:

Teacher makes the group of six students each and asks them to name the

faces, edges and vertices of at least two figures that they have drawn.

a) What are vertices?

b) What are edges?

c) What are faces?

3) Explanation:

One student have drawn the cuboid figure. He tries to show its faces,

edges and vertices by using duster. One more student explain by using

notebook as a tool.

4) Elaboration:

Teacher further elaborate the topic by using learning cuboid, pyramid that

they see in this everyday life.

ACHIEVEMENT TEST

Name): ,	••••••	Time : 35min	
Class	: VII th	Section:	Date: 02 -01-20	15
Subje	ect: Mat	hematics	Maximum Mark	s: 25
Q1] (Choose	e the correct answer.	(3.5mar	ks)
	i)	A rectangle is made up ofa) Three b) four	line segme	nts.
	ii)	A quadrilateral is made up ofa) Three b)four		nts.
	iii)	An angle smaller than a right an a) Acute b) obtuse		angle.
:	iv)	If two lines have one common j	point they are called	
	lines	a) parallel lines b) perpen	dicular lines c) i	ntersecting
	v)	A triangle having two equal side triangle.	es is called a	
		a) Scalene b)	Isosceles c)	equilateral
	vi)	If any one angle is greater than an angled triangle. a) Acute b) right		s called
	vii)	If we combine four cube than w a) Cube b)rectang rectangle		be and
Q2]	Say t	rue or false.	(3	marks)
	i) ii) iii) iv)	Each angle of a square is a right The opposite sides of a rhombus The diagonals of a rhombus are All the sides of a rectangle are of	are equal in lengthequal in length	

v)	All the sides of a parallelogr	am are of equal length
vi)	The opposite sides of a trape	zium are parallel
Q3] Name e	each polygon and draw an	y two diagonals for it.(4 marks)
	a)	b)
	Name:	Name:
c)		d)
	Name:	Name:
Q4] Observ	ve the figure carefully and	write the answer.
(6 m	arks)	
i)	A cube is a cuboid whose ed	ges are all of equal length
	It hasfaces	
	It hasedges	
	It hasvertices	<u> </u>
ii)	A triangular pyramid has a tr	riangle as its base. It is also known as a
tetrahe	dron.	
	It hasfaces	
-	It hasedges	
	It hasvertices	

	iii) A cuboid looks like a rectangular box It has faces It has edges It has corners (vertices)	
Q5] I	Match items of 'A' with items of 'B	(2.5marks)
a)	'A' Radius	i) 'B'
b)	Diameter	ii)
c)	Chord	iii)
d)	Segment	iv)
e)	Sector	v)

Q 6] A	Answer the following questions.	(6 marks)
i)	What is the shape of the football? Draw its shape.	
	Ans:	
ii)	What is the shape of the Blackboard? Draw its shap	e.
	Ans:	······································
iii)	What is the shape of the tube light? Draw its shape.	
	Ans:	••
iv)	What is the shape of the five rupee coin? Draw its s	hape.
	Ans:	ru
v)	What is the shape of the ruler/scale? Draw its shape	·
	Ans:	
vi)	What is the shape of the Samosa? Draw its shape.	
	Ans:	

Answer Key: Post -test

Q1]

- i) b v) b ii) b vi) c
- iii) a vii) c
- iv) c

Q2]

- i) T iv) F ii) T v) F
- iii) T vi) F

Q3]

- a) Octagon c) Pentagon
- b) Parallelogram d) Hexagon

Q4]

- i) 6, 12, 8
- ii) 4, 6, 4
- iii) 6, 12, 8

Q5]

- a) v d) iii b) ii e) i
- c) iv

Q6]

- i) Sphere iv) Circle
- ii) Rectangle v) Rectangle
- iii) Cylinder vi) Triangle/Pyramid

PRE-TEST

Name: .	••••••	Time: 35min
Class: V	II	Date:
Subject:	Mathematics	Marks: 25
Gender:	Male/Female:	Urban/Rural:
Class: V	I Grade/Score:	
O11 Ch	oose the correct answer.	(3.5marks)
Q1] O.M.	oose the confect answer.	(3.3marks)
i)	A triangle is made up of b) Three b) four	line segments.
	b) Three b) four	c) live
ii)	A quadrilateral is made up of	line segments.
	A quadrilateral is made up of b) Three b)four c) five	
iii)	An angle larger than a right angle is call	ed a angle.
	b) Acute b) obtuse	c) right
iv)	When two lines intersect and the angle is	rotryroon thour is a violet
14)	When two lines intersect and the angle then the lines are said to be	between them is a right angle,
	then the lines are said to bea) parallel b) perpendicular	c) intersecting
,		
v)	A triangle having three unequal sides istriangle.	called a
	b) Scalene b) Isosceles	c) equilateral
	0) 1000000	o) oquitatorar
vi)	If any one angle is a right angle then the	triangle is called
	an angled triangle.	
	b) Acute b) right c) obtu	ise
vii)	If we combine four cube than we get	·
,	b) Cube b) Sphere	c) triangle

Q2] Say	y true or false.		(3 marks)
i)	Each angle of a rectangle is a	right angle.	
ii)	The opposite sides of a rectang	gle are equal in length.	
iii)	The diagonals of a square are	equal in length.	
iv)	All the sides of a rhombus are	of equal length.	***************************************
v)	All the sides of a parallelogran	n are of equal length	***************************************
vi)	The opposite sides of a trapezi	um are parallel.	***
Q3] Na	me each polygon and its nur	nber of sides.	(4 marks)
	a)	b)	
N	Jame:	Name:	
N	lumber of sides:	Number of sign	des:
c		d)	
N	lame:	Name:	
N	lumber of sides:	Number of si	des:

Q4] observ	e the figure carefully an	d write the answer.	(9 marks)
i)	A cuboids looks like a rec It has faces It has corners		
ii)	A cube is a cuboids whos It hasfaces Each face has Each face has	- "	ength
iii)	A triangular pyramid has It is also known as a tetra It hasfaces Each face has Each face has	hedron. edges	
Q5] Match	the following	(2.5marks)	
	a) Cone		
	b) Sphere		
18	c) Cylinder		

	d) Cuboid	
	e) Pyrainid	
Q 6] Aı	nswer the following questions.	(3 marks)
i)	What is the shape of the ball?	
Ans:		
•	What is the shape of the rubber?	
Ans:		THE PARTY OF THE P
i) Ans:	What is the shape of the chalk?	

Answer Key - Pre-test

Q1]

- i) a
- iv) b
- ii) b
- v) a
- iii) b
- vi) b
- iv) b
- vii) a, b

Q2]

- i) T
- iv) T
- ii) T
- v) F
- iii) T
- vi) F

Q3]

- a) Triangle, 3
- b) Quadrilateral, 4
- c) Pentagon, 5
- d) Hexagon, 6

Q4]

- i) 6, 12,8
- ii) 6, 12, 8
- iii) 4,6,4

Q5]

- a) iv
- b) l
- c) i
- c) ii
- d) iii
- e) v

Q6]

- i) Sphere
- ii) Cuboid
- iii) Cylinder

REACTION SCALE

Name of the student:	Class:
Name of the School:	Date:

Sr. No.	Statement	SA	A	UD	DA	SDA
1.	Learning through this approach is an interesting experience					
2.	Sometimes it is boring to learn through this approach					
3.	Learning through this approach is time consuming					
4.	It is difficult to interact with teacher while he is teaching through this approach.					
5.	I feel motivated while learning through this approach					
6.	Presentation of the examples / illustrations helped me to understand the concepts well					
7.	Studying through this approach motivated the students to explore examples other than those given in text books.					
8.	Teaching based on this approach gives chance to think independently.					
9.	I feel active and happy in the class when the teacher taught through this approach.					
10.	Study though this approach develop competitive attitudes					