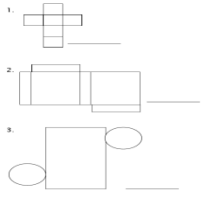
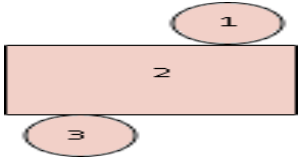


 GRADES 1 to 12 DAILY LESSON LOG	School:		Grade Level:	VI
	Teacher:		Learning Area:	MATHEMATICS
	Teaching Dates and Time:	FEBRUARY 27 – MARCH 3, 2023 (WEEK 3)	Quarter:	3RD QUARTER

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
I. OBJECTIVES	The learner.....				
A. Content Standard	demonstrates understanding of solid figures.				
B. Performance Standard	is able to construct and describe the different solid figures: cube, prism, pyramid, cylinder, cone, and sphere				
C. Learning Competencies / Objectives	visualizes and describes the different solid figures: cube, prism, pyramid, cylinder, cone, and sphere. M6GE-IIIc-31	identifies the nets of the following space figures: cube, prism, pyramid, cylinder, cone, and sphere using plane figures. M6GE-IIIc-32			Weekly Test
II. CONTENT	Geometry	Geometry	Geometry	Geometry	
III. LEARNING RESOURCES					
A. References					
1. Teacher's Guide pages	Lesson Guide in Elem. Math Gr. 6 p.77-83	Lesson Guide in Elem. Math Gr. 6 p.77-83	Lesson Guide in Elem. Math Gr. 6 p. 77-83		
2. Learner's Materials pages	21 st Century Mathletes 6, 200-209	21 st Century Mathletes 6, pp. 200-209	21 st Century Mathletes 6, pp. 200-209	21 st Century Mathletes 6, pp 200-209	
3. Textbook pages	21 st Century Mathletes 6, pp. 200-209	21 st Century Mathletes 6, pp. 200-209	21 st Century Mathletes 6, pp. 200-209	21 st Century Mathletes 6, pp. 200-209	
4. Additional Materials from Learning Resource (LR) Portal	DLP 6 Mod 54	DLP 6 Mod 54	DLP 6 Mod 54	DLP 6 Mod 54	
B. Other Learning Resources	Mathletes 6 textbook, video clip, power point presentation	Mathletes 6 textbook, video clip, power point presentation	Mathletes 6 textbook, video clip, power point presentation	Mathletes 6 textbook, video clip, power point presentation	
IV. PROCEDURES					
A. Reviewing previous lesson or presenting the new lesson	Drill:	Drill: Guess who am I? My name is given in the box below. Oops! Spelling of my name is jumbled up. Try to identify it from the clues given below and write it in the blank space. (1) I am a polyhedron with least number of faces. _____ (2) I am a prism whose all faces are square. _____ (3) Looks like marbles but have no vertex. _____ (4) I am a solid whose	Drill: BRING ME! The first pupil who will bring the thing that can be found inside their bag or in the classroom that represents the spatial figure that the teacher will say, will get 1 point. Those who will earn more points will be the winner. Ex. Bring me a thing that represents a rectangular prism. Review: Guessing Game!	A.Drill: Identify what spatial figure is being shown. 	Choose the letter of the correct answer: 1. Which solid can be formed using the net shown?  a. cylinder b. prism c.sphere

	100 100 <table><tr><th colspan="4">Name the solid figure that each object represents.</th></tr><tr><th>Representation</th><th>Solid Figure</th><th>Representation</th><th>Solid Figure</th></tr><tr><td>1. Book</td><td></td><td>6. Globe</td><td></td></tr><tr><td>2. Tent</td><td></td><td>7. Party Hat</td><td></td></tr><tr><td>3. Funnel</td><td></td><td>8. Fluorescent light</td><td></td></tr><tr><td>4. Drum</td><td></td><td>9. Soccer Ball</td><td></td></tr><tr><td>5. Volcano</td><td></td><td>10. Roof of a house</td><td></td></tr></table> Review SIMILARITIES DIFFERENCES Guide Questions: 1. What is the difference between plane and solid figures? 2. Is there a relationship between the two? Explain your answer.	Name the solid figure that each object represents.				Representation	Solid Figure	Representation	Solid Figure	1. Book		6. Globe		2. Tent		7. Party Hat		3. Funnel		8. Fluorescent light		4. Drum		9. Soccer Ball		5. Volcano		10. Roof of a house		base is polygonal and other faces are triangles. ____ B. Review Circle the 3d shapes below.	1. My base is a polygon and my faces are triangles. Who am I? (triangular prism) 2. I am a spatial figure with a polygonal base whose edges meet at a common vertex. Who am I? (pyramid) 3. I am a spatial figure having a circular base and one vertex. Who am I? (cone) 4. I am a spatial figure with 2 parallel congruent faces called bases and the other faces are parallelograms. Who am I? (rectangular prism) 5. I am a spatial figure with 2 circular bases, no edge, and no vertex. Who am I? (cylinder)	4. 5. B. Review 1. Which of these nets will make a cube? Answer: Which of these nets will make a cube? 2. Describe the net of this triangular prism Answer: Describe the net of this triangular prism	d. cone 2. What figure can you make from the net? a cylinder a cylinder with no bases a cube with no base a rectangular prism 3. Identify the rectangular prism that the net shown would fold into. Figure 1 Figure 2 Figure 3 Figure 4 a. Figure 4 b. Figure 3 c. Figure 1 d. Figure 2												
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B. Establishing a purpose for the lesson	Group Activity:	Group Activity: Distribute an activity sheet to each group. Complete the table given below by putting tick mark across the respective property found in mentioned. <table><tr><th>Properties</th><th>Cone</th><th>Cylinder</th><th>Prism</th><th>Pyramid</th></tr><tr><td>1. The figure is a polyhedron.</td><td></td><td></td><td></td><td></td></tr><tr><td>2. The figure has diagonals.</td><td></td><td></td><td></td><td></td></tr><tr><td>3. The shape has curved edges.</td><td></td><td></td><td></td><td></td></tr><tr><td>4. The base of figure is a polygon.</td><td></td><td></td><td></td><td></td></tr><tr><td>5. The bases are congruent.</td><td></td><td></td><td></td><td></td></tr><tr><td>6. The base of figure is a polygon and other faces meet at a single point.</td><td></td><td></td><td></td><td></td></tr><tr><td>7. The base of figure is a curved edge and other faces meet at a single point.</td><td></td><td></td><td></td><td></td></tr></table>	Properties	Cone	Cylinder	Prism	Pyramid	1. The figure is a polyhedron.					2. The figure has diagonals.					3. The shape has curved edges.					4. The base of figure is a polygon.					5. The bases are congruent.					6. The base of figure is a polygon and other faces meet at a single point.					7. The base of figure is a curved edge and other faces meet at a single point.					Every morning, we take our breakfast to jumpstart our day. Breakfast is the first and most important meal of the day. People have different preferences for breakfast. Some prefer to have a light breakfast, while others want it heavy. One good example of a healthy breakfast is a bowl of	Group Activity: Distribute net to each group. Let them cut carefully around the net. Fold the net to construct a solid figure. Label the name of the solid figure they formed.	4. Which of the nets can be folded to form a cylinder? Figure 1 Figure 2 Figure 3 Figure 4
Properties	Cone	Cylinder	Prism	Pyramid																																									
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IV. MOTIVATION

WORD HUNT

Form triads. Answer this activity. Practice speed and accuracy

Search and ring the defined words in the grid that corresponds to the word hints given below.

Write also the answer on the space before each item number.

N	V	R	E	D	N	I	L	Y	C
R	E	C	T	A	N	G	L	E	Z
S	R	T	A	S	C	M	W	Q	D
E	T	C	S	Q	U	E	R	E	I
R	E	O	P	E	B	D	E	D	M
U	X	N	H	Y	E	I	A	G	A
G	D	E	E	P	L	N	G	E	R
I	J	P	R	I	S	M	S	O	Y
F	A	C	E	S	K	C	V	B	P

WORD HINTS:

_____ 1. Flat parts of a solid figure

_____ 2. The line where two faces meet.

_____ 3. The point where three edges meet.

_____ 4. Closed figure that can be folded into a closed 3-dimensional figure. It is a pattern you can form into solid figures.

_____ 5. A polyhedron whose bases are congruent polygons and whose lateral faces are parallelograms.

_____ 6. A polyhedron whose base is a polygon. The lateral faces are triangles.

_____ 7. A solid figure with a curved surface of points that are all of the same distance from the center.

_____ 8. A solid figure with curved surfaces and one circular base.

_____ 9. A solid figure with a curved surface and that has two circular bases that are congruent and parallel.

_____ 10. A polygon with four equal sides and angles.

Answer:

Solution.

On the basis of properties and features of cone, cylinder, prism and pyramid, we can fill the given table as follows:

Properties	Cone	Cylinder	Prism	Pyramid
1. The figure is a polyhedron.	x	x	✓	✓
2. The figure has diagonals.	x	x	x	x
3. The shape has curved edges		✓	x	x
4. The base of figure is a polygon.	x	x	✓	x
5. The bases are congruent	x	✓	✓	x
6. The base of figure is a polygon and other faces meet at a single point.	x	x	x	✓
7. The base of figure is a curved edge and other faces meet at a single point.	✓	x	x	x

cereals. All cereals are available in a similar box. What kind of solid figure is it? Have you tried unfolding cereal box?

a. Figure 2

b. Figure 4

c. Figure 3

d. Figure 1

5. Which of the nets can be folded to form a rectangular prism?

a. Figure 2

b. Figure 1

c. Figure 4

d. Figure 3

C. Presenting Examples/Instances of new lesson

Group Activity:

Identify the solids that can be formed by the given figures.

(TG page 79)

Let's Study This

A solid or space figure in three-dimensional. It has length, width and height. It is bound by portions of planes or curved surfaces or both.

A polyhedron is a solid with plane or flat surface. The flat surface is the face, the intersection of any two faces is called an edge and the intersection of three or more faces is the vertex.

Present the lesson on page 200 of Txbk.

Let us unfold a cereal box.

Based on the illustration (see the illustration on page 200), if we unfold the cereal box we will come up with a closed plane figure.

This two-dimensional figure is called a *net*.

(Discuss the content on page 202-205 of 21st century Mathletes)

Group Activity:

Provide graphing paper for each group to do this activity.

Use Nets to Build Prisms and Cylinders

A net is a pattern of two-dimensions that can be folded to make a three-dimensional figure. You can use 1 cm graph paper to help you make nets.

Activity

1. Use a net to construct a rectangular prism.

a. Draw the net at right on a piece of graph paper. Each rectangle is 10 squares by 4 squares. The two squares are 4 small squares on each side.

b. Cut out the net. Fold the net along the edges of each rectangle to make a rectangular prism. Tape the edges to hold them in place.

2. Use a net to construct a cylinder.

a. Draw the net at right on a piece of graph paper. The rectangle is 25 squares by 8 squares. Use a compass to make the circles. Each circle has a radius of 4 squares.

b. Cut out the net. Fold the net as shown to make a cylinder. Tape the edges to hold them in place.

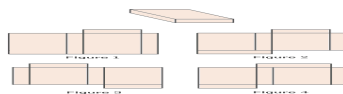
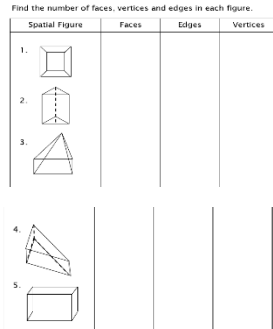
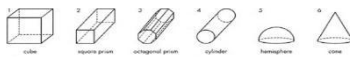
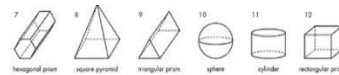
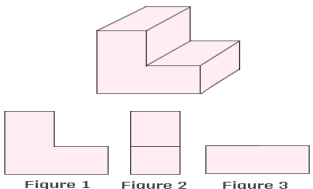
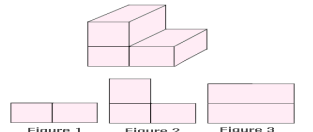
6. Which net can be folded to form a rectangular prism?

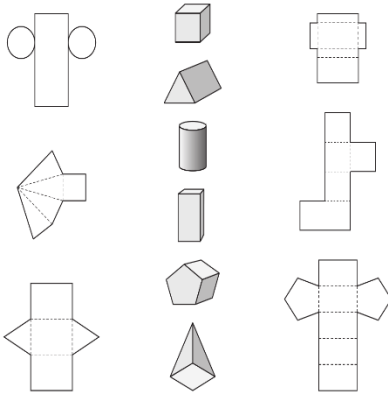
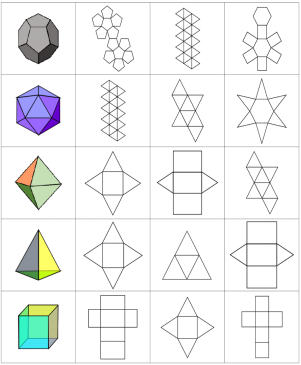
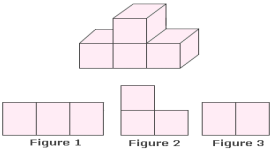
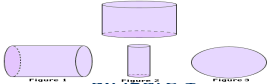
a. Figure 2

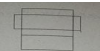
b. figure 3

c. figure 1

d. figure 4

D. Discussing new concepts and practicing new skills #1	Show a video of visualizing solid figures	Show a video of visualizing solid figures	Show a video of “3d Shape Nets for Kids”	Show a video of “Learning Solid Figures and Nets (cone, cylinder, prism, pyramid, cube, cuboid)”	7.. Identify the net for the rectangular prism.  a. Figure 2 b. Figure 4 c. Figure 1 d. Figure 3																																																																		
E. Discussing new concepts and practicing new skills #2	Group Activity: 		Group Work; Each group will make 2 different nets for the ff. Group 1: Cube Group 2: Square Prism Group 3: Octagonal Prism Group 4: cylinder Group 5: Cone (TG. page.80) 	Each group will make 2 different nets for the ff. Group 1: hexagonal prism Group 2: square pyramid Group 3: Triangular Prism Group 4: cylinder Group 5: rectangular prism 	8. Which of the figures represents the front view of the solid?  a. Figure 3 b. Figure 2 c. Figure 1 d. none of these																																																																		
F. Developing mastery (Leads to Formative Assessment)	Fill in the name, and number of faces, edges and vertices for each shape. <table><tr><td>Name: _____ Faces: _____ Edges: _____ Vertices: _____ </td><td>Name: _____ Faces: _____ Edges: _____ Vertices: _____ </td></tr><tr><td>Name: _____ Faces: _____ Edges: _____ Vertices: _____ </td><td>Name: _____ Faces: _____ Edges: _____ Vertices: _____ </td></tr><tr><td>Name: _____ Faces: _____ Edges: _____ Vertices: _____ </td><td>Name: _____ Faces: _____ Edges: _____ Vertices: _____ </td></tr><tr><td>Name: _____ Faces: _____ Edges: _____ Vertices: _____ </td><td>Name: _____ Faces: _____ Edges: _____ Vertices: _____ </td></tr></table>	Name: _____ Faces: _____ Edges: _____ Vertices: _____ 	Name: _____ Faces: _____ Edges: _____ Vertices: _____ 	Name: _____ Faces: _____ Edges: _____ Vertices: _____ 	Name: _____ Faces: _____ Edges: _____ Vertices: _____ 	Name: _____ Faces: _____ Edges: _____ Vertices: _____ 	Name: _____ Faces: _____ Edges: _____ Vertices: _____ 	Name: _____ Faces: _____ Edges: _____ Vertices: _____ 	Name: _____ Faces: _____ Edges: _____ Vertices: _____ 	Find the correct shape from the 3 possibilities. <table><tr><td>Faces: 8 Edges: 18 Vertices: 12</td><td></td><td></td><td></td></tr><tr><td>Faces: 5 Edges: 8 Vertices: 5</td><td></td><td></td><td></td></tr><tr><td>Faces: 6 Edges: 12 Vertices: 8</td><td></td><td></td><td></td></tr><tr><td>Faces: 7 Edges: 15 Vertices: 10</td><td></td><td></td><td></td></tr><tr><td>Faces: 7 Edges: 12 Vertices: 7</td><td></td><td></td><td></td></tr></table>	Faces: 8 Edges: 18 Vertices: 12				Faces: 5 Edges: 8 Vertices: 5				Faces: 6 Edges: 12 Vertices: 8				Faces: 7 Edges: 15 Vertices: 10				Faces: 7 Edges: 12 Vertices: 7				For each 3d shape, shade the correct net. <table><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table>																					Match each net to its name and 3d representation. <table><tr><td></td><td>Cube</td><td></td></tr><tr><td></td><td>Cuboid</td><td></td></tr><tr><td></td><td>Tetrahedron (triangular based pyramid)</td><td></td></tr><tr><td></td><td>Square-based pyramid</td><td></td></tr><tr><td></td><td>Hexagonal prism</td><td></td></tr><tr><td></td><td>Triangular prism</td><td></td></tr></table>		Cube			Cuboid			Tetrahedron (triangular based pyramid)			Square-based pyramid			Hexagonal prism			Triangular prism		9. Which of the figures represents the side view of the solid?  a. Figure 3 b. Figure 1 c. Figure 2 d. none of these
Name: _____ Faces: _____ Edges: _____ Vertices: _____ 	Name: _____ Faces: _____ Edges: _____ Vertices: _____ 																																																																						
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G. Finding practical applications of concepts and skills in daily living	Pair-share: Name: _____ Score: _____ Faces, Edges & Vertices Circle the object that best fits the description. 1) 6 faces, 12 edges, 8 vertices 2) 5 faces, 8 edges, 5 vertices 3) 6 faces, 12 edges, 8 vertices 4) 5 faces, 9 edges, 6 vertices 5) 5 faces, 8 edges, 5 vertices Printable Math Worksheets @ www.mathworksheets4kids.com	Matching Game 1) Divide the class into 2 groups. 2) The first group will be given activity cards with the name of spatial figures. 3) The second group will be given activity cards with descriptions of particular spatial figures. 4) Let the activity card holders raise the activity cards they are holding. 5) Each of them will try to find their partner. 6) The first to match their cards correctly wins. 7) Let each pair stand in front and read their activity cards.	Pair-share: Draw a line to match these 3D shapes with the nets below: 	Pair-share: Name: _____ Date: _____ FIND THE NETS SHEET 3 For each of the 3d platonic solids, shade the correct net. 	10. Which is the top view of the solid?  Figure 1 Figure 2 Figure 3 a. Figure 1 b. Figure 2 c. Figure 3 d. none of these 11. Which of the figures represents the top view of the cylinder?  Figure 1 Figure 2 Figure 3 b. Figure 3 c. Figure 2 d. none of these Ans. A,b,b,d,c,c,d,c,a,a,b
H. Making generalizations and abstractions about the lesson	What is a solid figure? How can you describe a solid figure? -A solid or space figure is three – dimensional. It has length, width and height. -Face – is the flat surface. -Edge – is the intersection of any two faces. -Vertex – is the intersection of three or more faces.		What is a net? A net is a flat figure that can be folded to form a closed, three-dimensional object. Such an object is called a solid. Differentiate the nets of pyramids, prisms, cones and cylinders from each other		

I. Evaluating Learning	Word Box cube sphere four pyramid solid six cylinder vertex eight cone faces ten rectangular prism edge twelve Choose a word from the box to correctly answer each question. Some words will be used more than once. Some words will not be used at all. 1. A box of cereal is shaped like which solid? 2. A can of soup is shaped like which solid? 3. An orange is shaped like which solid? 4. A glue stick is shaped like which solid? 5. Your math book is shaped like which solid? 6. A die is shaped like which solid? 7. What are the flat surfaces on a pyramid, cube, or rectangular prism called? 8. What is the name of the place on a solid where two faces meet? 9. What is the name of a corner on a solid where three or more edges meet? 10. How many faces does a rectangular prism have? 11. How many vertices does a rectangular prism have? 12. How many edges does a rectangular prism have? Solid Figures Cube Sphere Cylinder Cone Pyramid Rectangular Prism Write the name of the solid figure that each object looks like. PAINT SOCCER BALL CEREAL GLASS BOOK ICE CREAM CONE SOUP WHEEL GLOBE Name each solid figure. Then, draw its net. EVALUATE Name each solid figure. Then, draw its net. 1.  2.  3.  4.  5.  (Txbk page 206) Identify the solid figure that can be formed by each net. 7.  9.  11.  13.  15.  (Txbk page 207) Continuation: Answer Chapter Test on page 83				
J. Additional activities for application and remediation	Answer Math Challenge on page 208-208=9	Answer remediation on TG page 81	Answer Enrichment Activity on TG page 82		
V. Remarks					
VI. REFLECTIONS					
A. No. of learners who earned 80% on the formative assessment					
B. No. of learners who require additional activities for remediation who scored below 80%					

C. Did the remedial lessons work? No. of learners who have caught up with the lesson					
D. No. of learners who continue to require remediation					
E. Which of my teaching strategies worked well? Why did this work?					
F. What difficulties did I encountered which my principal or supervisor can help me solve?					
G. What innovation or localized materials did I use/discover which I wish to share with other teachers?					