# Brandon Valley School District District Learning Plan April 27-May 1, 2020

Grade 6 Math



LESSON/UNIT: Geometry	SUBJECT/GRADE: 6th Grade Math DATES: 4/27-5/01
What do students need to do? PART ONE link to BV instructional video for week of April 27 - May 1, 2020 PART TWO link to BV instructional video for week of April 27 - May 1, 2020	<ul> <li>Monday (4/27):         <ul> <li>Students should look over the provided notes OR watch the PART ONE instructional video (link to the left) on finding the surface area of square pyramids. Complete the Pyramid Worksheet Problem #1.</li> </ul> </li> <li>Tuesday (4/28):         <ul> <li>Students should look over the provided notes OR watch the PART TWO instructional video (link to the left) on finding the surface area of triangular pyramids. Complete the Pyramid worksheet Problem #2.</li> </ul> </li> </ul>
	<ul> <li>Wednesday (4/29), Thursday (4/30), and Friday (5/01):</li> <li>Students should look over the provided notes (from last week and this week) and rewatch previous instructional videos to complete the Surface Area worksheet. The previous instructional videos can be found in the archived distance learning plans. Click on the link located at the bottom of the distance learning page.</li> </ul>
What do students need to bring back to school?	<ol> <li>Pyramid Worksheet</li> <li>Surface Area Worksheet</li> </ol>
What standards do the lessons cover?	6.G.A. Solve real-world and mathematical problems involving area, surface area, and volume. 3. Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems. 4. Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.
What materials do students need? What extra resources can students use?	Need: • worksheets (see PDF documents below) Extra: • Multiplication Table • <u>https://www.mathsisfun.com/tables.html</u>
What can students do if they finish early?	ALEKS topics- <u>https://my.mheducation.com/</u> *Continue working your topics *QuickTables (math fact practice) *assignments (if your teacher has assigned them) Khan Academy- <u>https://www.khanacademy.org/math</u>
	Find a rectangular prism in your house (cereal box, toy chest, etc). Figure out how much wrapping paper (surface area) would be needed to cover all sides of the prism. Take a picture of the item. Send the picture and work to your teacher.
	If it's nice outside, GO OUTSIDE and see how many rectangular prisms you can find!

Who can we contact if	Brandon Valley Intermediate School
we have questions?	Principal- Mr. Skibsted- <u>Nick.Skibsted@k12.sd.us</u>
	Assistant Principal- Mr. Pearson- Rick.Pearson@k12.sd.us
	Math Teachers:
	Ms. VanRoekel: <u>Rebecca.VanRoekel@k12.sd.us</u> (blue team)
	Ms. Lewis: <u>Layne.Lewis@k12.sd.us</u> (white team)
	Ms. Wiese: <u>Stacey.Wiese@k12.sd.us</u> (red team)
	Mr. Kocer: <u>Cassius.Kocer@k12.sd.us</u> (silver team)
Notes: Worksheets do not have to be printed off. Problems can be answered on blank or lined paper. The math	

textbook can also be accessed online at <a href="https://my.mheducation.com/login">https://my.mheducation.com/login</a>.

## Instructional materials are posted below (if applicable)

Brandon Valley School District

#### Step-by-Step Guide to finding surface area of a Square Pyramid as demonstrated in the video.

Create the net in the area below. Label the dimensions. Then find the surface area.



Create the net in the area below. Label the dimensions. Then find the surface area.





# each triangle is the same Now that the net is completed, find the area of each surface. Then add the values together to find the total surface area.





BottomTriangular Faces
$$A = b \cdot h$$
 $A = b \cdot h \div 2$  $= 4 \cdot 4$  $= 4 \cdot 3 \div 2$  $= 16 ft^2$  $= 12 \div 2$  $= 6 ft^2$  $= 6 ft^2$  $\times AII + mangles are$ the same.

Add all values:  

$$16 + 6 + 6 + 6 + 6$$
  
 $= 16 + 12 + 12$   
 $= 40 + 7$ 

Pyramid Worksheet

Name \_\_\_\_\_

Create the net in the area below. Label the dimensions. Then find the surface area.

1.







#### Step-by-Step Guide to finding surface area of a Triangular Pyramid as demonstrated in the video.

Create the net in the area below. Label the dimensions. Then find the surface area.



Create the net in the area below. Label the dimensions. Then find the surface area.





Create the net in the area below. Label the dimensions. Then find the surface area.



Surface Area = 27.6 + 32 + 32 + 32

= [123.6 in<sup>2</sup>]

### Surface Area Worksheet

Name\_\_\_\_\_

Create the net for each three-dimensional figure. Then find the surface area.







10 yd 10 yd 10 yd 7 yd

4.