Teacher: <u>Mr. Palsson</u>   **Subject:** <u>Geometry</u>   **Date 5**<u>/11-5/15</u>   **Weekly Planner for week 4**

Welcome to our Distance Learning Classroom!   **Student Time Expectation per day: 30 minutes**

Content Area & Materials	Learning Objectives	Tasks • Digital Option. **Check mpalsson.weebly.com daily.** • If you don't have internet access there will be a paper package available at KHS.	Check-in Opportunities • Email me: mpalsson@tusd.net. I will reply back to you the same day. Take a photo of your math problem and attach it to the email.	Submission of Work for Grades • You will do daily quizzes at Khan Academy or take a photo of your work and send it to **mpalsson@tusd.net**
GEOMETRY: Unit 8 Completing the square and Volume of various geometric shapes. (18.1-18.3)	**During this week you will learn about:** • How to complete the square. • Volume of rectangular prisms and cylinders. • Volume of Triangular Prisms, Cones, Spheres and Rectangular Pyramids.	On Khan Academy and on my webpage: Students will watch the videos, read the notes, take notes, read articles and do the exercises/quizzes.	My office hours are 11 am – 1 pm Monday-Friday. However, you can email me anytime. I will get back to you as soon as I can.	Students are to watch videos and read articles and take notes, including sample problems and terminology, Students will be graded on completion and correctness on all activities (videos, articles, exercises/quizzes and Unit Tests)
	<u>**Mr. Palsson will post daily instructions related to the work on his website at mpalsson.weebly.com**</u>			
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Teacher Office Hours *2 hours daily (all classes):*	**Monday 11-1** **Take a photo of your math problem and email your questions to mpalsson@tusd.net**	**Tuesday 11-1** **Take a photo of your math problem and email your questions to mpalsson@tusd.net**	**Wednesday 11-1** **Take a photo of your math problem and email your questions to mpalsson@tusd.net**	**Thursday 11-1** **Take a photo of your math problem and email your questions to mpalsson@tusd.net**	**Friday 11-1** **Take a photo of your math problem and email your questions to mpalsson@tusd.net**

Detailed Lesson Plans for week 4 of distance learning, 5/11-5/15

Students should go and check mpalsson.weebly.com every morning in case there is an update.

WEEK # 4 (DEADLINE FOR KHAN ACADEMY ASSIGNMENTS IS FRIDAY 5/15 AT 11.00 PM):
mon. 5/11
Practice on Completing the Square. This is used for finding the equation of a circle in those cases when the equation is not in standard form (which it was when we did it a few days ago). (You will also complete the square in Algebra 2 when you have a quadratic equation that is not factorable. For example: Solve $x^2 + 6x - 11 = 0$)

On a paper copy the examples in the 3 links below.

Look at the second example for this one:
completing_square_0.jpg
Look at the third example for this one:
completing_square_1.jpg

completing_square_2.jpg

In the above examples you might have noticed that you take the coefficient in front of X and Y and you divide it by 2 (In the Khan video tomorrow they call this "a"). Then put a parenthesis and square it.
For example $x^2-6x=12$ would mean that you take $-6/2$ which is -3. Then you will have $(-3)^2$ which is 9. Add to both left and right side of the equation.
Another example: $y^2+3=8$ would mean that you take $3/2$. Then you will have $(3/2)^2$ which is $(9/4)$. Add to both left and right side of the equation.

The reason you complete the square is that you want to be able to write it in standard form so that you can figure out h,k and r for the circle equation. Once you have that you can graph the circle.

tue 5/12
Practice on Completing the Square (continued from yesterday)
Go to Khan Academy and watch the two videos and read the article:

* **Video nr 1: watch up to 12.34 on the time line.**
* **Read the article**
* **Video nr 2: watch the whole video**

Solve the problems below on a piece of paper, take a photo and put your period, last name, first name in the subject line of your email to mpalsson@tusd.net
completing_the_square_4.png

wed 5/13
18.1. **Volume of Rectangular Prisms and Cylinders**
On Khan:
1) Read the article "Volume formulas review"
2) Watch the video-clip "Volume of a rectangular prism"
3) Take the quiz/practice for "Volume of rectangular prisms"
4) Watch the video-clip "Cylinder volume & surface area" but only up to 3.26 on the time line.
5) Take the quiz/practice for "Volume of Cylinders"

18.2. **Volume of Triangular Prisms, Cones, Spheres and Rectangular Pyramids**
On Khan:
1) Watch the video-clip "Volume of a triangular prism & cube"
2) Watch the video-clip "Volume of a cone"
3) Watch the video-clip "Volume of a sphere"
4) Watch the video-clip for a "Rectangular Pyramid" below:
www.youtube.com/watch?v=VeMfSJWXRu8

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Solve the problems below on a piece of paper, take a photo and put your period, last name,
first name in the subject line of your email to mpalsson@tusd.net
volume_1.png
volume_2.png