

| Content Area & Materials                                | Learning Objectives  | Tasks  | Check-in Opportunities   | Submission of Work for Grades  |
|---|--|--|--|--|
| GEOMETRY:<br>Unit 7 Circles<br>(15.1-15.5,)             | During this week you will learn about:<br>* Central and inscribed Angles<br>* Angles in inscribed quadrilaterals<br>* Tangents and circumscribed angles<br>* Segment relationships in circles. | On Khan Academy and on my webpage:<br>Students will watch the videos, read the notes, take notes, read articles and do the exercises/quizzes in preparation for a <u>Unit 7 Test on Friday 5/8</u> (This will be an open book test on join.quizizz.com). | My office hours are 11 am – 1 pm Monday-Friday.<br>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) |
|   | <b>Mr. Palsson will post daily instructions related to the work on his website at <a href="http://mpalsson.weebly.com">mpalsson.weebly.com</a></b>   |  |  |  |
|   |  |  |  |  |
| Teacher Office Hours<br>2 hours daily<br>(all classes): | Monday 11-1<br><b>Take a photo of your math problem and email your questions to <a href="mailto:mpalsson@tusd.net">mpalsson@tusd.net</a></b>   | Tuesday 11-1<br>Take a photo of your math problem and email your questions to <a href="mailto:mpalsson@tusd.net">mpalsson@tusd.net</a>   | Wednesday 11-1<br>Take a photo of your math problem and email your questions to <a href="mailto:mpalsson@tusd.net">mpalsson@tusd.net</a> | Thursday 11-1<br>Take a photo of your math problem and email your questions to <a href="mailto:mpalsson@tusd.net">mpalsson@tusd.net</a>  |
|   |  |  |  | Friday 11-1<br>Take a photo of your math problem and email your questions to <a href="mailto:mpalsson@tusd.net">mpalsson@tusd.net</a>  |

## Detailed Lesson Plans for week 2 of distance learning, 4/27-5/1

Students should go and check [mpalsson.weebly.com](http://mpalsson.weebly.com) every morning in case there is an update.

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### WEEK # 2 (DEADLINE FOR KHAN ACADEMY ASSIGNMENTS IS FRIDAY 5/1 AT 11.00 PM):

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#### 15.1. Central Angles and Inscribed Angles

Watch the [Khan](#) video and do the exercise/quiz.

The basics that you should learn is that the inscribed angles are half of the central angles. And that if the arc is 120 degrees, so is the central angle. The Khan challenge is a little advanced, but you can click the link under the problem and look at the solutions. For these problems you need to know that the circumference  $C=2\pi r$  and also that  $C$  is 360 degrees.

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#### 15.2. Angles in Inscribed Quadrilaterals

Watch the [Khan](#) video. Solve the exercise/quiz. Opposite angles in a quadrilateral are always 180 degrees if added together.

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#### 15.3. Tangents and Circumscribed Angles

Watch the 3 [Khan](#) videos. Solve the exercise/quiz. For the Khan challenge, use the pythagorean formula.

(Click the link for the solutions if you can't solve it.)

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#### 15.4. Segment Relationships in Circles

Khan didn't have a good video for the Chord Chord Product Theorem so watch this one up to 6.19 on the time line:

[www.youtube.com/watch?v=IdkIIAAJ-Rw](http://www.youtube.com/watch?v=IdkIIAAJ-Rw)

Also, watch this video about the Secant Secant Product Theorem:

[www.youtube.com/watch?v=hjpiHAiTawM](http://www.youtube.com/watch?v=hjpiHAiTawM)

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](mailto:mpalsson@tusd.net)

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[screen\\_shot\\_2020-04-12\\_at\\_11.31.20\\_am.png](#)

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#### 15.5. Angle Relationships in Circles

First let's look at Angles Formed by Intersecting Chords (=Inside Angles).

Watch this video:

[www.youtube.com/watch?v=WvG9Jz3jjSk](http://www.youtube.com/watch?v=WvG9Jz3jjSk)

So as you can see in the video the two angles in the middle are vertical so they are always the same. And they are the average of the two arcs, in the video that means  $(78+50)$  multiplied by 0.5, which is 64 degrees.

Secondly, let's look at the Tangent Secant Exterior Angle Measure Theorem (=Outside Angles)

[www.youtube.com/watch?v=eq1G7AWsTY8](http://www.youtube.com/watch?v=eq1G7AWsTY8)

So the  $(\text{big arc} - \text{small arc})$  multiplied by 0.5 (or divided by 2 like in the video) = the outside angle.

Examples of the above:

[math\\_screenshot.jpg](#)

[screen\\_shot\\_2020-04-12\\_at\\_12.42.34\\_pm.png](#)

Before you solve the problems in link 2 and 3 below, look at the first link.

It's a great SUMMARY of the different cases.

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](mailto:mpalsson@tusd.net)

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[screen\\_shot\\_2020-04-12\\_at\\_12.10.55\\_pm.png](#)

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