

Week of: 5/4 – 5/8
Geo Learning Guide: Gellerson

Learning goals for this week include:

1. I can calculate the volume of prisms, cylinders, cones and pyramids.
2. I can rotate 2D shapes to create 3D shapes.
3. I can identify the 2D shapes created by cross sections of 3D figures.

Expectations:

1. Students will login to Teams to get their weekly assignments and complete any assignments in Teams.
2. Students will complete the quiz in Edulastic on Monday from 1:00-2:00.
3. Students will watch the videos and complete the assignments in Khan Academy.
4. Students will take advantage of the weekly Teams meetings to ask questions and get help with their assigned work.
5. Students should have weekly assignments completed and submitted by the end of the day on Sundays. Late work is always accepted.
6. Students should be working out math problems on a piece of paper or whiteboard. Many of these problems require you to work them out!

No Mathia this week because we moved the quiz from last Friday to Monday. Monday will have more to do than normal because of this switch and the fact that you had no additional assignments last Friday. Some of this material is review (volume of prisms and cylinders). If you know how to do this already, you may skip the videos and just complete the assignments.

	Monday	Tuesday	Wednesday	Thursday	Friday
Microsoft Teams	Weekly Meeting * 1:00-2:00 (quiz day)			Office Hours** 1:00-1:30	
	Log in to meet at 1:00 or a bit earlier.			Volume of Pyramids See below for detailed assignments info.	
Edulastic (See info below to access Edulastic)	Circles Quiz from 1:00-2:00 today				Volume Quiz
Khan Academy	Cross Sections See below for detailed assignments info.	Rotating 2D shapes in 3D See below for detailed assignments info.	Volume of Rectangular Prisms and Cylinders See below for detailed assignments info.	Volume of Cones See below for detailed assignments info.	

* Weekly Meeting – beginning 5/4, we will have a class meeting from 1:00-1:30. Students should plan on attending these meeting each week.

** Office Hours – time where Ms. Gellerson is available online to answer questions, help with technical issues, etc. Students are not required to join during this time.

Please continue to be in contact with me if you need help getting a laptop, internet or food resources.

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NO MATHIA THIS WEEK

Monday May 4th

Circles Quiz from 1:00-2:00 in Teams and Edulastic.

Go to the following website and explore different ways to slice a cube to see the various cross sections.

<https://www.pbslearningmedia.org/resource/mgbh.math.g.xsection/cross-sections-of-a-cube/>

Go to the following website to explore cross sections of other 3d figures. Pay close attention to the cross sections of the single cone. These are called conic sections are important in future math classes. They will also show up quite a bit in the 2nd set of Khan Academy problems today. Think about what shapes or functions (on the graph) you get when you click on the animate button for the different shapes and cross sections. See the hint below.

<http://www.shodor.org/interactivate/activities/CrossSectionFlyer/>

Watch the following videos in Khan Academy if you want/need to after exploring the previous web pages.

2D vs. 3D objects

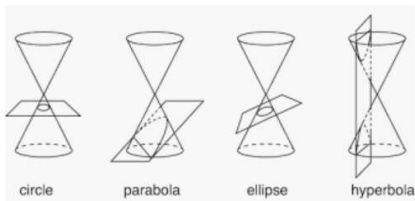
Learn

 Slicing a rectangular pyramid

 Ways to cross-section a cube

Complete these problem sets in Khan Academy

HINT:



Practice

Cross sections of 3D objects (basic)

Proficient



Nice! Ready to move on

Cross sections of 3D objects

Proficient



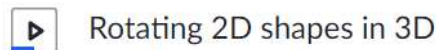
Nice! Ready to move on

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Tuesday May 5th

Watch the following video in Khan Academy

2D vs. 3D objects



Go to the following website and explore rotating 2D shapes.

<https://www.geogebra.org/m/UMHXAvhb#material/B4edXSMp>

Rotate 2D shapes in 3D
Proficient
Nice! Ready to move on

Complete these practice problems in Khan Academy.

Quiz 2

Level up on the above skills and collect up to 300 Mastery points

[Start quiz](#)

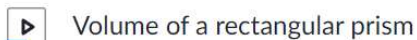
Complete this quiz in Khan Academy.



Wednesday May 6th

Watch the following videos in Khan Academy and complete the practice problems. The idea that volume is the area of the base times height also works for other prisms and cylinders. $V = Bh$ where B is area of the base.

Volume of rectangular prisms



Volume as area of base times height
Proficient
Nice! Ready to move on

Volume of rectangular prisms
Proficient
Nice! Ready to move on

Watch the first 3.5 minutes of this video on volume. Stop when he switches to surface area. Complete the practice problems.

Volume of cones, cylinders, and spheres

Learn



Practice

Volume of cylinders
Get 3 of 4 questions to level up!
[Practice](#)

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Thursday May 7th

Watch these videos and complete these practice problems.

[Volume of cones, cylinders, and spheres](#)

 [Volume of a cone](#)

Volume of cones

Get 3 of 4 questions to level up!

[Practice](#)



Watch the volume of pyramids video in Teams. Click on Files, May 4th folder, video.




Complete the assignment Volume of Pyramids in Teams.

Friday May 8th

Volume quiz in Edulastic

Standard equation of a circle

Learn

-  Features of a circle from its standard equation
-  Graphing a circle from its standard equation
-  Writing standard equation of a circle

Practice

Features of a circle from its standard equation

Get 3 of 4 questions to level up!

[Practice](#)



Graph a circle from its standard equation

Get 3 of 4 questions to level up!

[Practice](#)



Write standard equation of a circle

Get 3 of 4 questions to level up!

[Practice](#)



Enrichment: Formulas for circles

Optional