8.1 Volumes of Cylinders
8.2 Volumes of Cones
8.3 Voluems of Spheres
8.4 Surface Areas and Volumes of Similar Solids

Mrs. Kohrman's Wiki: <u>http://kohrman14.wikis.birmingham.k12.mi.us/</u> Big Ideas Math Online Book: Make sure you know your username

For this unit you will explore multiple resources in order to achieve mastery of the <u>Learning Targets</u> in each section of Chapter 8. (These resources are available to you for *any* topics in *any* chapter - Learning to use these resources now, will help you in any math class in the future.) You may work alone or with a partner at any time to investigate the material and master the learning targets.

You will use your text book and on-line resources I have identified and posted on my wiki to learn the material in this unit. After accessing at least 2 of the instructional resource options (this may mean watching <u>multiple</u> instructional videos), you will complete and check the assignment for that chapter section.

After completing, checking and recording your score on your assignment, you must pass the "Mini-Assessment" for each section before moving on to the next chapter section. (This is like a 3-5 question "check-up." You <u>must</u> score 75% or above.) If necessary, you may need to utilize another one of the instructional resources I have suggested or work with me individually to achieve mastery of the content.

I am available during class and Academic Lab to clarify content once you have examined the *available resources* and you have identified areas of concern.

Besides using class-time wisely (<u>this will be graded</u>), completing assignments, and passing the mini-assessments, you will make a note-card summarizing each section, take 2 on-line quizzes, complete an on-line review and take an on-line practice test. The final Unit Test will be on Monday, May 14th.

Technology Use

During this unit, I will have laptops available for you to access the online materials identified in this unit. You may bring your own iPad, laptop, tablet, etc. to class if you choose. You <u>must</u> use your own headphones.

You may only use technology to access the material outlined in this unit. If you are accessing sites not related to the chapter, you will lose the privilege to be online for the rest of that day. (There are textbooks available in the class to use as a resource.) If you do not use technology appropriately, your tech privileges can be taken away for the duration of the unit. It would then be your responsibility to access the resources outside of school.

Expectations

This is a self-paced, self-directed unit. You are expected to use all class time responsibly. All work for the unit must be completed by 8:00 am on May 14th. Please note that during this unit, the 7th grade will be doing M-STEP testing. We will meet in class 9 times for a total of 9.5 hours. You will have an additional 6 hours of "study hall" time, and 4.5 hours of academic lab. That is a grand total of 20 hours of time in school that you have to complete this unit. You are responsible for completing all assignments, assessments, and record keeping as outlined in the unit packet regardless of the number of days you are actually in class. You will complete all assignments and assessments on notebook paper. ALL work will be collected - you will turn in all of your work in an organized fashion. This outline and all related work are due by the beginning of class on Monday, May 14th.

I understand the expectations for this unit and will use my time wisely and responsibly.

Student Signature_____

10 Extra Credit Points will be given for sharing this with a Parent!

Parent Signature: _____

Learning Targets

- Understand Vocabulary: Volume, Circle, Radius, Diameter, Circumference, Base, Height
- Find the Volume of a Cylinder
- Formula for Volume = ______
- Find the Height of a Cylinder
- Apply Volume to Answer Real-Life Questions

What I did to Learn and Understand this Content (Pick at least 2).

I read this section in my text book, looked at the examples, and understand how to do the "On your own" questions.	I watched the 4 example tutorials on the Big Ideas Math website and understand the explanations. 1 2 3 4
I watched the following Links to Lessons covering the topics in 8.1 (Listed on Mrs. Kohrman's Wiki.) 1 2 3 4 5 6 7 8	□ Other: Explain.

Homework: Page 338 # 1-5, 9-12, 13, 15, 17

When I checked my Homework I had _____ out of 12 problems correct. ___% On my Mini-Assessment I scored _____ (must be 75% or higher)



I feel I understand this section and will be ready for the quiz and Quest.



I have made a note-card or study guide page summarizing the learning targets for this section.

Learning Targets

- Understand Vocabulary: Volume, Base, Radius, Diameter, Height, Square Root
- Find the Volume of a Cone
- Formula for Volume of a Cone ______
- Find the Height of a Cone
- Apply Volume to Answer Real-Life Questions

What I did to Learn and Understand this Content (Pick at least 2).

I read this section in my	I watched the 3 example		
text book, looked at the	tutorials on the Big Ideas Math		
examples, and understand how to	website and understand the		
do the "On your own" questions.	explanations.		
	1 2 3		
I watched the following	Other: Explain.		
Links to Lessons covering the			
topics in 8.1 (Listed on Mrs.			
Kohrman's Wiki.)			
1234567			

Homework: Page 344 #1-17 odd, 18

When I checked my Homework I had _____ out of 11 problems correct. ____% On my Mini-Assessment _____ (must be 75% or higher)

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I feel I understand this section and will be ready for the quiz and test.



I have made a note-card or study guide page summarizing the learning targets for this section.



8.1 and 8.2 On-Line Quiz: Score_____

Learning Targets

- Understand Vocabulary: Sphere, Hemisphere, Volume, Center, Radius, Cube Root, Composite Solid
- Formula Volume of a Sphere ______
- Find the Volume of a Sphere
- Find the Volume of a Composite Solid

What I did to Learn and Understand this Content (Pick at least 2).

I read this section in my text book, looked at the examples, and understand how to do the "On your own" questions.	I watched the 3 example tutorials on the Big Ideas Math website and understand the explanations. 1 2 3
I watched the following Links to Lessons covering the topics in 8.1 (Listed on Mrs. Kohrman's Wiki.) 1 2 3 4 5 6 7	Other: Explain.

Homework: Page 352 #1-6, 9-13, 14, 15, 18

When I checked my Homework I had _____ out of 14 problems correct. ____% On my Mini-Assessment I scored _____ (must be 75% or higher)



I feel I understand this section and will be ready for the quiz and test.

I have made a note-card or study guide page summarizing the learning targets for this section.

Learning Targets (This is a LOT of Content!)

- Understand Vocabulary: Similar Solids, Corresponding Dimensions, Proportional, Slant Height, Prism,
- Identify Similar Solids
- Find Missing Measures in Similar Solids
- Understand Ratio of Areas = Ratio of dimensions SQUARED
- Find the Surface Areas of Similar Solids
- Understand Ratio of Volumes = Ratio of dimensions CUBED
- Find Volumes of Similar Solids

What I did to Learn and Understand this Content (Pick at least 3!).

I read this section in my text book, looked at the examples, and understand how to do the "On your own" questions.	I watched the 4 example tutorials on the Big Ideas Math website and understand the explanations.
	1 2 3 4
I watched the 4 Links to Lessons covering the topics in 8.1 (Listed on Mrs. Kohrman's Wiki.) 1 2 3 4	Other: Explain.

Homework: Page 359 #3-15

When I checked my Homework I had _____ out of 13 problems correct. ___% On my Mini-Assessment I scored _____ (must be 75% or higher)



I feel I understand this section and will be ready for the quiz and Quest. I have made a note-card or study guide page summarizing the learning targets for this section.



Chapter 8 Unit Summary

8.1

	#of instructional resources
	You used
	Assignment score %
	Best Mini-Assessment score %
8.2	
	#of instructional resources
	You used
	Assignment score %
	Best Mini-Assessment score %
	8.1 and 8.2 On-line Quiz Score %
8.3	
	#of instructional resources
	You used
	Assignment score %
	Best Mini-Assessment score %
8.4	
	#of instructional resources
	You used
	Assignment score %
	Best Mini-Assessment score %
	8.3 and 8.4 On-line Quiz Score %

Other Unit Scores

Use of Class time (5 points
each day, Total of 45 points
On-line Review Score %
Practice Test Score %

Additional/Optional Review Work

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• From The Text Book (answer keys are provided in class) 8.1-8.2 Quiz Review Pg 347 #1-10 8.3-8.4 Quiz Review Pg 362 #1-11

8.1-8.4 Chapter Review Pg. 366 #1-10

