

6Richmond Public Schools
Department of Curriculum and Instruction
Curriculum Pacing And Resource Guide – Unit Plan



Course Title/ Course #: Pre-Algebra Math 8

Unit Title/ Marking Period # (MP): Pythagorean Theorem/MP 2

Start day: 69

Meetings (Length of Unit): 6 Days

<i>Desired Results ~ What will students be learning?</i>		
<u>Standards of Learning/ Standards</u>		
8.9 The student will use problem solving, mathematical communication, mathematical reasoning, connections, and representations to:		
<ul style="list-style-type: none"> a) Construct three-dimensional models, given the top or bottom, side, and front views. b) identify three-dimensional models given a two-dimensional perspective. 		
<u>Essential Understandings/ Big Ideas</u>		
How does knowledge of two-dimensional figures inform work with three-dimensional objects? It is important to know that a three-dimensional object can be represented as a two-dimensional model with views of the object from different perspectives.		
<u>Key Essential Skills and Knowledge</u>		
<ul style="list-style-type: none"> • Construct three-dimensional models, given the top or bottom, side, and front views. • Identify three-dimensional models given a two-dimensional perspective 		
<u>Vocabulary</u>		
3-dimensional Face vertex	2-dimensional	

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Assessment Evidence ~ What is evidence of mastery? What did the students master & what are they missing?

Assessment/ Evidence

Mulligan Checkpoint 8.9
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 Interactive Achievement
 HCPS Mini Quizzes
 Students should be able to match the correct top, front and side view to a given image.

Math Task Assessment: <http://map.mathshell.org/download.php?fileid=810>

Learning Plan ~ What are the strategies and activities you plan to use?

Learning Experiences/ Best Practice

Math Science Innovation Center Lesson- Cube-n-ometry. All materials and slide available using the following link.

http://mathinscience.info/teach/612_math/math68/cube-n-ometry/cube-n-ometry.html

Have students use wooden blocks to build the 3-dimensional shapes.

Technology Integrations

Gizmo
 Educational Games-under resources
 Compass Learning
 Allen Teachers
 Brain Pop
 Khan Academy

Resources

Text:
 Glencoe Pre-Algebra pages:
 705 (Drawing Three Dimensional Figures)

Mulligan Math in Minutes 8.9

SOL Coach Book Va Edition: pages 108-112

Technology:

Gizmo-[3D and Orthographic Views Activity B](#)- Interactive Instructional Resource

WisWeb Applet-[Building Applets](#)- Interactive Lessons/Activities

Virginia Department of Education

VDOE-[3D Figures](#)-Lesson Plan

Other Sites

HCPS - [Three Dimensional Model](#) - Instructional materials, practice page, assessments

Math Science Innovation Center-[Cubenometry](#)-Lesson Plan

Cross Curricular Connection

English-have students use a venn diagram to compare and contrast the views of the three dimensional vs. the two dimensional shapes.

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