

Lesson Title: Triangles

Unit: Measurement

Grade Level: 8th & TAKS Remediation

Estimated time requirement: 7 days

Summary (25-50 words): During this unit you will investigate the angle and side relationships with in triangles. You will also explore and work with the Pythagorean Theorem. Hands- on activities, webquest, videos, and power point presentations will be incorporated in the unit.

Objectives:

- Find missing angles in triangles
- Determine possible side lengths of triangles
- Discover the Pythagoreans Theorem and its origin by use of Internet project
- Explore and manipulate the Pythagorean Theorem of right triangles

Content Standards:

Middle School Math: www.tea.state.tx.us/rules/tac/chapter111/ch111b.html 6.6a, 6.6.b,7.6b,8.7c,8.9a

TEKS Technology Applications:

<http://www.tea.state.tx.us/rules/tac/chapter126/ch126b.html#126.11>

126.12 (c) 2.a, 3.b,4.a,.4.b, 5.a, 7.b,.7.d, 8.e, 10.a, 11.a

Assessment:

- Teacher assessment on triangle overview final assignment.
- WebQuest will be assessed using a rubric created by the students not the rubric in the original Webquest

Materials:

- Index cards, pipe cleaners, rulers, and tape measurer
- Downloadable worksheets
- Access to digital cameras and video recorder
- Internet accessible computers
-

Resources:

Webquest site WebQuest: The Pythagorean Theorem: What is the opposite of a wrong triangle?
<http://www.sinc.sunysb.edu/Stu/cvolmut/webquest.html>

Digital Video Clip [Triangles](#). AIMS Multimedia. 1998. unitedstreaming. 9 October 2005
<<http://www.unitedstreaming.com/>>

Microsoft Word
Power Point
Teacher's worksheet

Prior Knowledge/Skills:

Students should have the basic terminology of angles, triangles, squares, and square roots. They should have basic computer skills such as Internet Explorer, Microsoft Word, and Power Point.

Procedures:

Follow the daily lesson that are attached to my website

Modifications:

- Teacher assistance
- Peer assistance in completing the WebQuest
- Content Mastery assistance as needed.

Technology Infusion:

- Power Point Presentations
- Internet investigations
- Digital Video clips
- Digital imagery

Family Connection:

Students and their families may present additional uses of the Pythagorean Theorem by means of digital pictures or digital clips as an Enrichment Activity for Extra Points