

Careers in Action

Summer Teacher Internship/Lesson Plan Writing Project

This lesson has been endorsed by Adolfo Navarro, Fleet Manager, McAllen Construction Inc.

Alex Salinas	Geometry	Summer 2007
Teacher's Name	Course/Subject	Date(s)/Time

Content	Objective(s)	Career Concentration(s)
	TLW estimate the volume of real world form in cubic yards of cement, given the height, length and width of the three dimensional figure with the sue of your calculator to the nearest tenth.	<input type="checkbox"/> Agricultural Science <input type="checkbox"/> Human Dev., Management & Services <input type="checkbox"/> Art, Communications & Media <input checked="" type="checkbox"/> Industrial and Engineering <input type="checkbox"/> Business & Marketing <input type="checkbox"/> Personal and Protective Services <input type="checkbox"/> Health Science Technology

TEKS Reference: G.8.D. Congruence and the geometry of size: find surface areas and volumes of prisms, pyramids, spheres, cones cylinders and composites

TAKS Reference: Obj 8

Process	Focus/Anticipatory Set	Bloom's Taxonomy in Lesson	Multiple Intelligences	SCANS							
	Show a video of a flood gate floor cement pour at Balboa Acers	<input type="checkbox"/> Knowledge <input type="checkbox"/> Comprehension <input type="checkbox"/> Application <input type="checkbox"/> Analysis <input type="checkbox"/> Synthesis <input checked="" type="checkbox"/> Evaluation	<input type="checkbox"/> Linguistic <input checked="" type="checkbox"/> Logical/Math <input type="checkbox"/> Musical <input checked="" type="checkbox"/> Spatial <input type="checkbox"/> Bodily-Kinesthetic <input type="checkbox"/> Intrapersonal <input type="checkbox"/> Interpersonal <input type="checkbox"/> Naturalist	Foundation		A	B	C	D	E	F
	Relevance/Connection to Workplace			Competencies		A	B	C	D	E	F
	At McAllen Construction Inc. potential customers call asking for estimates for floors and various cement forms, in order to give an estimate with the dimensions the volume is calculated and the cost is given for quantity of cement needed.				1	2	3	4	5		

Process	Instructional Methodology (Activities)	Instructional Material(s)
	<input type="checkbox"/> Lecture <input type="checkbox"/> Class/Group Discussion <input type="checkbox"/> Teacher Modeling <input type="checkbox"/> Question/Answer <input type="checkbox"/> Media Presentation <input type="checkbox"/> Guided Practice <input type="checkbox"/> Small Group <input type="checkbox"/> Independent Practice	Cement pour video, Teachers notes, Holt Geometry materials, Quiz

Process	Detail(s) of Instructional Methodology (Activities)	Materials/Resources
	Review the volume formula for a prism and cylinder $V=l \cdot w \cdot h$ and $V=\pi \cdot r^2 \cdot h$. Model labeling the sides of the figure and solving for the volume. Work examples on Section 10-6 pg. 701 #1-5. Have students work as a class to solve problem. Guided practice problems 1-12. Feed back for students at various point of the instruction will be ensured.	TAKS Formula Sheet, Holt Geometry book, Internet

Process	Accommodations	Use of Technology
	Modifications for the special education and LEP students. Spanish resources and peer tutoring for the ESL students.	Eiki projector, Document Camera, TI-83 Calculator, Classroom computer

Product	Assessment	Bloom's Taxonomy in Assessment
	<input checked="" type="checkbox"/> Teacher Evaluation <input checked="" type="checkbox"/> Peer/Self Evaluation <input type="checkbox"/> Employer Evaluation <input type="checkbox"/> Written/Oral Presentation <input checked="" type="checkbox"/> Test/Quiz <input type="checkbox"/> Others; _____	<input type="checkbox"/> Knowledge <input checked="" type="checkbox"/> Analysis <input type="checkbox"/> Comprehension <input type="checkbox"/> Synthesis <input checked="" type="checkbox"/> Application <input type="checkbox"/> Evaluation

Product	Reteach Activity/Homework	Lesson Closure
	Ask students to work in pairs solve problems	Ask the students to identify the volume formulas for a prism and

on pg 702 #13-23 show all work and calculations

cylinder, and the meaning of each variable.