

Careers in Action

Summer Teacher Internship/Lesson Plan Writing Project

This lesson has been endorsed by Ana Valladarez, Sr. Financial Analyst, Hunt Valley Development

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Engineering Graphics

Summer 2007

Teacher's Name

Course/Subject

Date(s)/Time

Content

Objective(s)

TLW construct their own home through Google Sketchup and place it on Google Earth, using correct measurements and following proper procedures to upload to the 3dwarehouse.

Career Concentration(s)

- | | |
|--|--|
| <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: 123.63.c: 1A, 1D, 2, 8, 10B, 12B, 12D,

TAKS Reference: SSC Obj. 2; MATH Objectives: 6, 7, 8

Process

Focus/Anticipatory Set

Teacher will virtually travel with students around the earth through Google Earth and show them some samples of buildings made on Google Sketchup by downloading at: sketchup.google.com/3dwarehouse

Bloom's Taxonomy in Lesson

- Knowledge
- Comprehension
- Application
- Analysis
- Synthesis
- Evaluation

Multiple Intelligences

- Linguistic
- Logical/Math
- Musical
- Spatial
- Bodily-Kinesthetic
- Intrapersonal
- Interpersonal
- Naturalist

SCANS

	A	B	C	D	E	F
Foundation	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Competencies	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Relevance/Connection to Workplace

All the planning at Hunt Valley Development has to be done with Geo-reference. HVD employees have to be well acquainted with maps. Google Earth is a great tool to use at no cost.

Instructional Methodology (Activities)

- | | |
|--|--|
| <input checked="" type="checkbox"/> Lecture | <input type="checkbox"/> Class/Group Discussion |
| <input checked="" type="checkbox"/> Teacher Modeling | <input type="checkbox"/> Question/Answer |
| <input checked="" type="checkbox"/> Media Presentation | <input type="checkbox"/> Guided Practice |
| <input checked="" type="checkbox"/> Small Group | <input checked="" type="checkbox"/> Independent Practice |

Instructional Material(s)

If not much experience, the teacher might need a manual on how to use Google Earth and Google Sketch up which can be found online. Those programs must be installed on the computer for presentation and for students to work on.

Detail(s) of Instructional Methodology (Activities)

Teacher will start off by explaining how important it is to society to plan and build using new technology on Geo-referencing and/or GIS. Teacher will immediately show examples by using Google Earth and turning on the 3D capabilities. Teacher will download an example from the 3Dwarehouse mentioned above), and show how it's placed automatically on Google Earth. By this lesson TL should know how to import and export from Google Earth and Sketchup. TLW make construct their own home and place it on the 3Dwarehouse. TLW work independently but can also help their peers with questions they might have.

Materials/Resources

TLW may use pictures from their own home, computer with internet and Google Earth and Sketchup.

Use of Technology

TLW use computer with internet, and shall be able to present information gathered through a power point presentation.

Accommodations

Product

Assessment

- | | |
|--|--|
| <input checked="" type="checkbox"/> Teacher Evaluation | <input type="checkbox"/> Peer/Self Evaluation |
| <input type="checkbox"/> Employer Evaluation | <input type="checkbox"/> Written/Oral Presentation |
| <input type="checkbox"/> Test/Quiz | <input type="checkbox"/> Others; _____ |

Bloom's Taxonomy in Assessment

- | | |
|--|---|
| <input type="checkbox"/> Knowledge | <input checked="" type="checkbox"/> Analysis |
| <input type="checkbox"/> Comprehension | <input checked="" type="checkbox"/> Synthesis |
| <input type="checkbox"/> Application | <input type="checkbox"/> Evaluation |

Reteach Activity/Homework

Lesson Closure

This is one of the best experiences anyone can get while trying to learn about engineering or architecture. A visit on the virtual world is sure to open up the students minds and an opportunity for the teacher to learn as well too.