

Unit title: 3D Sketchup

Standard (s): ARVD.02-Understand and demonstrate technology and process related to visual communication.

Standard (s): ITIM.02.01-Demonstrate the ability to work with appropriate software tools.

Standard (s): ITIM.02.01.e-Demonstrate the ability to create and transform objects in 3D space

ITIM.02.03.b-Understand the hardware requirements for the creation, visualization, and rendering of computer 2D and 3D graphics.

Knowledge (what do you want them to be able to KNOW at the end of the unit)

Student will be able to know how to use the software Sketchup to create models in 3d. Students will know how to apply textures and be able to measure unit dimensions and transpose them to a computer program.

Skills (what do you want them to BE ABLE TO DO at the end of the unit)

Student will be able to take a real building or room and create it by making 3d models to scale. The building/or room will be one that they are familiar with.

Essential Question(s):

How does 3d models make visuals more real? How would 3d architect change the way we build houses?

Key words/vocab: 2d, 3d, axis, push/pull, follow me, orbit, pan, zoom, offset, plane, texture, arc, geometry, midpoint,

WICOR Strategy:

Writing: Students will be writing in their blog reflecting on their projects, what they did and how they may do it different the next time.

Collaboration: Students will be given the opportunity to evaluate each other works and give feedback

Organization: Student will keep record of their learning task in their planner.

Reading: Student will read lesson instruction to guide them through the process to build their skills

Unit Performance Assessment:

Students will be given a real world environment and be required to model the environment to scale.

Students will texture the environment based on real life photos of the environment.

Formative Assessments (daily/weekly)

Students will be given small task that will be completing daily to build their 3d skills. Weekly assignments will be given that will demonstrate the progress of their skills.

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