

Unit title: 3D 1- Spline and NURB Modeling

Standard (s): ARVD.01.01.a-Understand and analyze line, shape, form, color, texture, balance, unity, variety, emphasis, movement and proportion as related to visual communication.

Standard (s) ARVD.01.02-Use available tools and techniques.

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

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

Students will be able to know the content vocabulary that relates to using a 3d software. Students will be able to know the best software features and options to use when then make a 3d model using Splines.

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

Student will be able to create a 3d model adding simple color materials. Students will also be able to articulate what tools they used to make the model

Essential Question(s):

How has 3d modeling changed the way we view movies in the 21st century?

Key words/vocab: Primitive, polygon, segments, orbital, panning, zooming, extrude, points, viewport, prospective, cube, sphere, cylinder, null, grid, axis, 3 dimensional, object, fillet, bevel, editable, edges, orientation, scale, rotate, move, selection, render, position, snaps, work plane, hyper-NURB, mesh, interpolation, connect, spline, inner extrude, sweep NURB, lathe NURB, extrude NURB, symmetry, materials

WICOR Strategy:

Writing: Student will be writing in their blog either reflecting on their work or explaining key content vocabulary

Inquiry: Student will experiment using tools they have mastered to create their own 3d model.

Collaboration: Students will work together to create models that can be used in similar scenes.

Organization: Students will keep record of their learning task in their planner. Student will maintain folders on there computer and learn how to back up file on to the server

Reading: Students will be given instructions on how to build a 3d model. Students will be given procedures to follow to read to help them accomplish their task.

<p>Unit Performance Assessment: Students will be given a project that they must create using the skills that they have learned. For parts of this model project they must demonstrate by doing a video tutorial what steps they used to create the model and use content vocabulary in their assessment video</p>	<p>Formative Assessments (daily/weekly)</p> <p>Cold calls -will be used to check for understanding on the skills they have learned. Students will also be writing/blogging the process they used to create a model.. Students will evaluate each other's work and give feedback about the model they are working on.</p>
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