GEORGIA | PEACH STATE PATHWAYS

Career, Technical, & Agricultural Education

ACCT—ARCHITECTURAL DRAWING

PATHWAY: Architectural Drawing and Design

COURSE: Architectural Drawing and Design II

UNIT: 7-Presentations

INTRODUCTION

Annotation:

This unit includes lessons on presentation, one-point, and two-point perspective drawings. Students will learn to identify and prepare different types of presentation drawings. The students will also draw one-point and two-point perspectives.

Grade(s):

	9th
X	10th
X	11th
X	12th

Time: 40 hours

Author: Carole Ray

Additional Author(s):

Students with Disabilities:

For students with disabilities, the instructor should refer to the student's IEP to be sure that the accommodations specified are being provided. Instructors should also familiarize themselves with the provisions of Behavior Intervention Plans that may be part of a student's IEP. Frequent consultation with a student's special education instructor will be beneficial in providing appropriate differentiation.

FOCUS STANDARDS

GPS Focus Standards:

ACT-ADDII-4: Students will create a presentation for a building.

a. Demonstrate the purpose of architectural presentations.
b. Draw one-point and two-point perspectives.
c. Create a presentation using various methods.

GPS Academic Standards:

MM1P4: Students will make connections among mathematical ideas and to other disciplines.

ELA9RL5: The student understands and acquires new vocabulary and uses it correctly in reading and writing.

SCSh4: Students will use tools and instruments for observing, measuring, and manipulating scientific equipment and materials.

National / Local Standards / Industry / ISTE:

ADDA: Advanced CADD Skills

UNDERSTANDINGS & GOALS

Enduring Understandings:

Presentation drawings can often help sell a project. These allow the individual to get an indication of how the project actually looks.

Essential Questions:

- Why are presentation drawings important?
- Why are there different rendering techniques?
- Is one rendering technique better than another? If so, why?
- How do you choose which technique to use?
- What is the difference in a one-point, two-point, and three-point perspective?
- How do you know which type of perspective drawing to use?

Knowledge from this Unit:

- Students will be able to give the purpose of architectural presentations.
- Students will learn the vocabulary for perspectives, rendering, and model building.

Skills from this Unit:

- Students will be able to create a presentation for a drawing.
- Students will be able to draw one-point and two-point perspectives.

ASSESSMENT(S)

Assessment Method Type: Select one or more of the following. Please consider the type(s) of differentiated instruction you will be using in the classroom.

____ Pre-test
X Objective assessment - multiple-choice, true- false, etc.
_X_ Quizzes/Tests
___ Unit test
____ Group project
X Individual project
X Self-assessment - May include practice quizzes, games, simulations, checklists, etc.
_X Self-check rubrics
__ Self-check during writing/planning process
__ Journal reflections on concepts, personal experiences and impact on one's life
__ Reflect on evaluations of work from teachers, business partners, and competition judges
__ Academic prompts
__ Practice quizzes/tests
____ Subjective assessment/Informal observations
__ Essay tests
__ Observe students working with partners
__ Observe students role playing
X Peer-assessment
__ Peer editing & commentary of products/projects/presentations using rubrics
_x Peer editing and/or critiquing
X Dialogue and Discussion
__ Student/teacher conferences
__ Partner and small group discussions
_X Whole group discussions
__ Interaction with/feedback from community members/speakers and business partners
____ Constructed Responses
__ Chart good reading/writing/listening/speaking habits
__ Application of skills to real-life situations/scenarios
____ Post-test

Assessment(s) Title:

Test: Presentation Drawing Vocabulary

Test: Perspective Drawing Vocabulary

Individual Project: Create a drawing using one-point perspective.

Individual Project: Create a drawing using two-point perspective.

Individual Project: Create two presentation drawings, using different methods.

Assessment(s) Description/Directions:

Follow instructions given on vocabulary tests.

Create a drawing using one-point perspective, using criteria outlined by the teacher.

Create a drawing using two-point perspective, using criteria outlined by the teacher.

Create two presentation drawings (in different methods), using criteria outlined by the teacher.

Attachments for Assessment(s):

Test: Presentation Drawing Vocabulary

Test: Perspective Drawing Vocabulary

Rubric: Presentation Drawings

LEARNING EXPERIENCES

Instructional planning: Include lessons, activities and other learning experiences in this section with a brief description of the activities to ensure student acquisition of the knowledge and skills addressed in the standards. Complete the sequence of instruction for each lesson/task in the unit.

Sequence of Instruction

1. Identify the Standards. Standards should be posted in the classroom for each lesson.

ACT-ADDII-4: Students will create a presentation for a building.

a. Demonstrate the purpose of architectural presentations.
b. Draw one-point and two-point perspectives.
c. Create a presentation using various methods.

2. Review Essential Questions.

- Why are presentation drawings important?
- Why are there different rendering techniques?
- Is one rendering technique better than another? If so, why?
- How do you choose which technique to use?
- What is the difference in a one-point, two-point, and three-point perspective?
- How do you know which type of perspective drawing to use?

3. Identify and review the unit vocabulary.

Presentation Drawings

Air Brush Rendering	Analogous	Appliqué Rendering
Chroma	Cold Colors	Colored Pencil Rendering
Complements	Composition	Contrast
Entourage	Exterior Perspective	Hue
Ink Rendering	Monochromatic	Pen-and-Ink Drawing
Pencil Rendering	Primary Colors	Rendering
Scratch Board Rendering	Secondary Colors	Shade
Tertiary Colors	Tint	Value
Warm Colors		

Perspective Drawings

Ground Line	Horizon Line	One-Point Perspective
Perspective Drawing	Perspective Grid	Picture Plane
Plan View	Station Point	Three-Point Perspective
True Length Line	Two-Point Perspective	Vanishing Point

4. **Draw a one-point perspective.**
5. **Draw a two-point perspective.**
6. **Create a presentation for a drawing.**
7. **Interest approach – Mental set**

   Ask students if there are people they know who could envision a floor plan better if they saw a perspective of it and why.

LESSON 1: The Basics of Presentation Drawings

Discussion

1. Identify the standards.
2. Review essential questions: Why are presentation drawings important? Why are there different rendering techniques? Is one rendering technique better than another? If so, why? How do you choose which technique to use?
3. Classroom discussion on unit vocabulary (presentation drawings); why are these terms important to know?
4. Watch you-tube video on "Easy Revit 19- Create Presentation Drawings: Visibility and Graphics".
5. Have students discuss the information covered in the video.
6. Give quiz on unit vocabulary (presentation drawings).

LESSON 2: Perspective Drawings

Discussion

1. Identify the standards.
2. Review essential questions: What is the difference in a one-point, two-point, and three-point perspective? How do you know which type of perspective drawing to use?
3. Classroom discussion on unit vocabulary (perspective drawings); why are these terms important to know?
4. Watch you-tube video on "1pt. Perspective_City."
5. Watch you-tube video on "How to Draw Two-Point Perspective, with Karl Gude."
6. Watch you-tube video on "Drawing a City in 2point Perspective."
7. Have students discuss the information covered in the video. Students should write a paragraph on what they learned from the videos.
8. Give quiz on unit vocabulary (perspective drawings).
9. Draw a one-point perspective, using instructions provided by the teacher.
10. Draw a two-point perspective, using instructions provided by the teacher.

LESSON 3: Presentation Drawings

Discussion

1. Identify the standards.
2. Go over the Elements of Composition.
3. Have students create drawings using different rendering techniques. Present drawings to class; discuss similarities and differences between the drawings. Discuss which rendering techniques worked best and why.
4. Create two presentation drawings, using instructions provided by the teacher.

Attachments for Learning Experiences:

- Presentation Drawing Vocabulary & Definitions
- Test: Presentation Drawing Vocabulary & Key
- Perspective Drawing Vocabulary & Definitions
- Test: Perspective Drawing Vocabulary & Key
- Elements of Composition
- Rubric: Presentation Drawings

Notes & Reflections:

Check for understanding frequently. Review presentation and perspective vocabulary, as needed.

Students will critique each others' drawings to make sure that all information needed is included.

Students can be given a copy of the presentation drawings rubric, so that they will know how they are to be graded.

The amount of time needed for activities is determined by whether the students are doing traditional (board) drafting or using a CAD system. The instructor should choose the appropriate instruction to support either board or CAD drafting.

CULMINATING PERFORMANCE TASK (Optional)

Culminating Unit Performance Task Title:

One-Point Perspective Drawing

Two-Point Perspective Drawing

Presentation Drawings (2)

Culminating Unit Performance Task Description/Directions/Differentiated Instruction:

Students will draw a one-point perspective drawing, a two-point perspective drawing, and two presentation drawings, using instructions provided by the teacher.

Attachments for Culminating Performance Task:

Presentation Drawings Rubric

UNIT RESOURCES

Web Resources:

- http://www.youtube.com/watch?v=felys-u4nfk&feature=related (How to Draw Two-Point Perspective, with Karl Gude)
- http://www.youtube.com/watch?v=T__WoSNTsuE&feature=related (Drawing a City in 2point Perspective)
- http://www.youtube.com/watch?v=NjWZUKzAoC4&feature=related (1pt. Perspective_City)
- http://www.youtube.com/watch?v=OtCImI9j-2E (Easy Revit 19- Create Presentation Drawings: Visibility and Graphics)

Attachment(s):

Materials & Equipment:

Depending on the medium used, you may need the following:

- Basic drafting tools
- CAD software
- Colored Pencils
- Magic Markers
- Inking Pens
- Water Colors
- Tempera Paint
- Scratch Board
- Air Brush

What 21st Century Technology was used in this unit:

	Slide Show Software		Graphing Software		Audio File(s)
X	Interactive Whiteboard	X	Calculator		Graphic Organizer
	Student Response System		Desktop Publishing	X	Image File(s)
	Web Design Software		Blog	X	Video
	Animation Software		Wiki		Electronic Game or Puzzle Maker
	Email	X	Website	X	CAD Software