



GEORGIA

PEACH STATE PATHWAYS

Career, Technical, & Agricultural Education

ACCT—ARCHITECTURAL DRAWING

PATHWAY: Architectural Drawing & Design

COURSE: Architectural Drawing & Design I

UNIT 10: Schedules



INTRODUCTION

Annotation:

Students will prepare schedules.

Grade(s):

X	9 th
X	10 th
X	11 th
X	12 th

Time:

10 hrs

Author:

Connie Highnote

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-ADDI-5 Students will prepare schedules.

- a. Explain the purpose of schedules on a set of architectural drawings.
- b. Draw window, door and finish schedules.

GPS Academic Standards:

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

MMIP4. Students will make connections among mathematical ideas and to those of other disciplines.

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

National / Local Standards / Industry / ISTE:



UNDERSTANDINGS & GOALS

Enduring Understandings:

Students should understand the concept of organizing information in a table. Schedules are used with larger, more complicated drawings where greater detail is desired. A schedule allows the drafter to add detailed information without making the drawing cluttered.

Essential Questions:

What is a window and door schedule? What is a finish schedule? When are schedules used with floor plans?

Knowledge from this Unit:

Students will understand how a schedule is used in a set of residential plans and when to use them. Students will be able to create a door, window and finish schedule.

Skills from this Unit:

Students will be able to identify symbols in a floor plan, key them and create a table detailing the information associated with these symbols.



ASSESSMENT(S)

Assessment Method Type:

- ☐ Pre-test
- ☐ Objective assessment - multiple-choice, true- false, etc.
 - ☐ Quizzes/Tests
 - ☐ Unit test
- ☐ Group project
- ☒ Individual project
- ☐ Self-assessment - May include practice quizzes, games, simulations, checklists, etc.
 - ☐ 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
- ☐ Peer-assessment
 - ☐ Peer editing & commentary of products/projects/presentations using rubrics
 - ☐ Peer editing and/or critiquing
- ☒ Dialogue and Discussion
 - ☐ Student/teacher conferences
 - ☐ Partner and small group discussions
 - ☒ 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:

INTERIOR FINISH SCHEDULE
WINDOW AND DOOR SCHEDULE

Assessment(s) Description/Directions:

Students will complete the schedules given a floor plan using the tools available as directed by the instructor.

Attachments for Assessment(s):

WINDOW AND DOOR SCHEDULE.doc
INTERIOR FINISH SCHEDULE.doc



LEARNING EXPERIENCES

Sequence of Instruction

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

ACT-ADDI-5 Students will prepare schedules.

- Explain the purpose of schedules on a set of architectural drawings.
- Draw window, door and finish schedules.

2. Review Essential Questions.

What is a window and door schedule? What is a finish schedule? When are schedules used with floor plans?

3. Identify and review the unit vocabulary.

Schedule
Manufacturer
Key
Rough opening
Vendor's catalog
Table

4. Interest approach – Mental set

The same principles are used when drafting a floor plan whether the students are using the traditional method or CAD. It is most important that the students understand what they are drafting. It is also important that the students understand the appropriate symbols, how to measure and the concept of scale. Have the students start with creating a window and door schedule using a simple floor plan.

Lesson 1 Identifying a Window and Door Schedule

Discussion

- Distribute copies of a floor plan to students and have them answer the following questions.
 - How many doors and windows are on the plan?
 - What is the size of each door and window?
 - Who is the manufacturer of the doors and windows?
 - What are the types of doors and windows?
 - What is the rough opening size?
- As a group have students try to answer the questions. Discuss the answers as a class. Explain to students that the manufacturer and rough opening are not given on the plan.
- Distribute Schedule.doc and explain that the doors and windows need to be keyed to correspond with the schedule. Have students make an educated guess of the window and door sizes based on the measurements given on the plan. Have students research a door and window vendor to select models of doors and windows for the home. Have students justify their selection. Discuss the importance of cost and energy efficiency.
- Students will create a table using Cad or a spreadsheet that corresponds with the floor plan and contains the information gathered.

WINDOW SCHEDULE					
SYM	SIZE	MFG	MODEL	ROUGH OPENING	QTY.

DOOR SCHEDULE					
SYM	SIZE	MFG	MODEL	ROUGH OPENING	QTY.

Lesson 2 Interior Finish Schedule

Discussion

Distribute a floor plan to students and have them create and complete the chart below given their preferences. Have students justify their selections in writing below the chart.

INTERIOR FINISH SCHEDULE												
ROOM	FLOOR					WALLS				CEILING		
	VINYL	CARPET	TILE	HARDWOOD	CONCRETE	PAINT	PAPER	TEXTURE	SPRAY	SMOOTH	BROCADE	PAINT
ENTRY												
FOYER												
KITCHEN												
DINING												
FAMILY												
LIVING												
MSTR BATH												
BATH #2												

MSTR BED												
BED #2												
BED #3												
UTILITY												

Attachments for Learning Experiences:

Notes & Reflections:

Students may demonstrate mastery of this standard thru the use of many tools. You may have the student letter the answers directly on the plan and schedule. You may ask students to duplicate the plan using 2d or 3d cad and create a schedule using the software. It is the instructor's decision based on the availability of tools.



CULMINATING PERFORMANCE TASK (Optional)

Culminating Unit Performance Task Title:

Design a floor plan

Culminating Unit Performance Task Description/Directions/Differentiated Instruction:

Given the client summary and rubric.doc, have students create schedules for the home they designed.

Attachments for Culminating Performance Task:



UNIT RESOURCES

Web Resources:

<http://www.andersenwindows.com/>

<http://www.jeld-wen.com/>

Attachment(s):

Door Identification.doc

Window Identification.doc

Floor Plan.pdf

Materials & Equipment:

Computer and cad or word processing software

What 21st Century Technology was used in this unit?

<input type="checkbox"/>	Slide Show Software
<input type="checkbox"/>	Interactive Whiteboard
<input type="checkbox"/>	Student Response System
<input type="checkbox"/>	Web Design Software
<input type="checkbox"/>	Animation Software
<input type="checkbox"/>	Email

<input checked="" type="checkbox"/>	Graphing Software
<input type="checkbox"/>	Calculator
<input type="checkbox"/>	Desktop Publishing
<input type="checkbox"/>	Blog
<input type="checkbox"/>	Wiki
<input checked="" type="checkbox"/>	Website

<input type="checkbox"/>	Audio File(s)
<input type="checkbox"/>	Graphic Organizer
<input type="checkbox"/>	Image File(s)
<input type="checkbox"/>	Video
<input type="checkbox"/>	Electronic Game or Puzzle Maker