

### Lesson #3: Project #2 (10 Day project)

#### Objectives

##### Students will be able to...

- Build a three-dimensional object based on two dimensional drawings.
- Estimate the cost of a given project, based on a shop drawing.

#### Common Core Standards

LS 11-12.6  
 RSIT 11-12.2  
 RLST 11-12.2  
 Health and Safety 6.2, 6.3, 6.4, 6.5, 6.6  
 Leadership and Teamwork 9.1, 9.7  
 Technical Knowledge and Skills 10.1, 10.5  
 Demonstration and Application 11.1  
 Cabinetmaking and Wood Products Pathway A1.4, A1.7, A3.1, A4.1, A4.3, A4.4, A4.7A4.1, A4.4, A6.1  
 Residential and Commercial Pathway D2.1, D3.1, D3.2, D3.3, D3.4, D3.5, D3.6, D3.7

#### Materials

Clean up job volunteers list/sign-up sheet  
 Tool Box Instructions/working drawings  
 Bill of Materials  
 Project Progress Self-evaluation (Day 6)  
 Project Self-Evaluation (Day 10)

#### Lesson Sequence

##### Day 1-5

- Have students find their "building buddy."
- Review *the clean-up job descriptions* and ask for volunteers to sign up for extra credit.
- Remind students of the clean-up procedures and machine and safety rules for while in

the shop.

- Review and answer any questions regarding the *toolbox instructions*.
- When each student gets their board, they may begin their project.

**Day 6**

- Have students complete the *project progress self-evaluation form*. Then students may continue to work on their project.

**Day 10**

- Have students put their final projects out and students roam around the classroom looking at each other's final project. Students may ask each other questions about their project. Have students fill out *the project self-evaluation form* about their experience with the project.

**Assessment**

- Monitor student's progress each day by observation and asking questions. Clarify any misconceptions as needed.
- Use student's toolkit papers/drawings, final product and student self-evaluation for student's final grade.

**Accommodations/Modifications**

One on One Support  
Check for Understanding  
Extra Time  
Specific Partnering

**Project # 2 Progress Self-Evaluation**

1. What I have learned from this project so far...

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2. What I would still like to learn from this project is.....

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3. Safety practices that I have been observing...

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4. What I have learned that I should be doing, from this point on, to ensure an excellent outcome of this project...

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### Project #2 Self-Evaluation

1. What I have learned from this project...

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2. Safety practices that I observed on this project...

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3. What I like and don't like about the structure/appearance of my project...

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4. What I could have done differently during this project...

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5. Skills I learned from this project...

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6. How much time did you put into this project?

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7. If you had to make five of these projects, how you manage your time differently?

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8. The grade that I would give myself on this project is a(n) \_\_\_\_\_.

## **Clean-up Jobs and Job Descriptions**

**Shop foremen (2):** Makes sure that everyone is helping and that those with specific jobs are doing them. Reports to Instructor before class is released.

**Safety glasses (2):** Counts safety glasses before going into shop, makes sure same number is back in case before final bell, reports any missing, or broken pairs to foremen and/or instructor.

**Tools (2):** Makes sure all tools that are out, get back into the tool room.

**Tool Room (2):** Makes sure that all tools brought into the tool room are put away in the correct place. Makes sure all tools are accounted for, and cleans/straightens tool room if necessary. Reports any discrepancies or problems to foremen and/or teacher.

**Machinery (2):** Makes sure machines are cleaned off, and cleaned out if necessary. Reports anything that is not right (broken, out of adjustment, etc.) to foremen and/or instructor.

**Work benches (2):** Makes sure all tools, materials, etc. are cleaned off of benches. Then sweeps them down.

**Floor (sweeping) (2-4):** Makes sure the entire shop is swept, and all sawdust is picked up and place in the trash or proper receptacle.

**Shop Volunteers – Sign Ups**

<b>Job:</b>	<b>Student #1</b>	<b>Student #2</b>
Shop foreman		
Safety glasses		
Tools		
Tool room		
Machinery		
Work benches		
Floor sweeping		
Floor Sweeping		