

## **Moon Area School District Curriculum Map**

**Course:** Advanced Wood Fabrication

**Grade Level:** 10-12

**Content Area:** Technology Education

**Frequency:** Full-Year Course

### **Big Ideas**

1. Safety is the number one priority.
2. Safety requires forethought, intention and patience.
3. Unsafe behaviors and action are never tolerated
4. Appropriate tools are used to measure to the desire degree of accuracy.
5. Measuring
6. Plan Reading
7. Project Highlights
8. Squaring materials
9. Order of go
10. Steps for construction

### **Essential Questions**

11. How can we safely function in this environment?
12. What is the best tool for the job?
13. Why is the bill of materials important?
14. Why does measurement play such an important role?
15. Why might a section of a part be removed to draw it?
16. What are the advantages of using a CAD system to create, view, and manage design drawings?
17. Why is it so important to pre plan the steps for construction?

### **Primary Resource(s) & Technology:**

Woodsmith Library, AutoCAD, Autodesk  
Promethean Boards, Student Computer Workstations, Tools, Machines,  
Aspire, Corel Draw

### **Pennsylvania and/or focus standards referenced at:**

[www.pdesas.org](http://www.pdesas.org)  
[www.education.pa.gov](http://www.education.pa.gov)

| <b>Big Ideas/EQs</b>                      | <b>Focus Standard(s)</b> | <b>Assessed Competencies (Key content and skills)</b>   | <b>Timeline</b>                |
|---|--------------------------|---|--------------------------------|
| 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17 |                          | <ul style="list-style-type: none"> <li>• Introduction to the class – expectations - Safety</li> </ul> | August<br>1 week               |
| 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17 |                          | Measuring, Fundamentals of Layout, Plan Reading, Project Highlights, Bill of Materials                | September-<br>2 Weeks          |
| 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17 |                          | Machine Safety, Squaring up Materials, Steps for Construction   | September<br>2 Weeks           |
| 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17 |                          | <ul style="list-style-type: none"> <li>• Year Long Project</li> </ul>                                 | November -<br>June<br>27 weeks |