

**Benchmarks – Indicators -- Mapping
Woods II**

1. **Explain the purposes for studying cabinetmaking. (VI, VII) (August) CE, GE**
 - A. List and explain the various careers in cabinetmaking. (wt)
 - B. List and explain possible educational requirements for cabinetmaking. (wt)
 - C. List and explain possible skills needed for cabinetmaking. (wt)

2. **Review the safety procedures associated with woodworking. (I, II, III, IV, V, VI) (August) CS, LS**
 - A. Explain safety precautions to be followed in the wood shop. (wt)
 - B. Explain safety precautions to be followed with the various wood processing equipment and tools. (wt)

3. **Review design process associated with woodworking and design a simple cabinet. (III, IV, V, VI) (August/September) CS, LS**
 - C. Explain a working drawing used in woodworking. (wt)
 - D. Explain a bill of materials. (wt)
 - E. Explain a lumber order. (wt)
 - F. Explain a steps of procedure. (wt.)
 - G. Design a product for construction. (pt)

4. **Explain and demonstrate Butt, Biscuit, and Dowel joints. (I, II, III, V, VI) (September) CS, LS**
 - A. Identify the types of Butt joints and tell how a Butt joint can be strengthened. (wt)
 - B. Make an edge Biscuit joint. (pt)
 - C. Make an edge Dowel joint. (pt)
 - D. List the steps in making a Dowel joint on a frame. (wt)

5. **Explain and demonstrate Rabbet joints. (I, II, III, V, VI) (September) CS, LS**
 - A. Lay out a Rabbet joint. (pt)
 - B. List power tools that can be used to cut rabbets. (wt)
 - C. Make a Rabbet joint using power tools. (pt)
 - D. Assemble a Rabbet joint. (pt)

6. **Explain and demonstrate Dado joints. (I, II, III, V, VI) (September) CS, LS**
 - A. Lay out and cut a dado. (pt)
 - B. Make a blind dado joint. (pt)
 - C. Make a rabbet-and-dado joint. (pt)
 - D. Explain how to cut dados with power tools. (wt)

Infused Areas

CE = career education
GE = global education
CS = communication skills
HOTS = higher order thinking skills
MCGF = multicultural gender fair
LS = learning skills
TI = technology integration

Assessments

ws = worksheet
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to = teacher observation
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Woods II (continued)

- 7. Explain and demonstrate Lap joints. (I, II, III, V, VI) (September/October) CS, LS**
- A. List major types of Lap joints. (wt)
 - B. Lay out and make a cross-lap joint. (pt)
 - C. Make a half-lap joint. (pt)
 - D. Make a full lap joint. (pt)
 - E. Make a finger-lap joint. (wt)
- 8. Explain and demonstrate Miter joints. (I, II, III, V, VI) (October) CS, LS**
- A. Explain the importance of accuracy when cutting miter joints. (wt)
 - B. Lay out, cut, and assemble miter joints to create a picture frame. (pt)
 - C. Explain the purpose of compound miters. (wt)
- 9. Explain and demonstrate Mortise-and-Tenon joints. (I, II, III, V, VI) (October) CS, LS**
- A. Describe a mortise-and-tenon joint. (wt)
 - B. Explain how the length, width, and thickness of the tenon are determined. (wt)
 - C. Name the power tools used to make a mortise-and-tenon joint. (wt)
 - D. Assemble a mortise-and-tenon joint. (pt)
- 10. Explain and demonstrate dovetail joints and casework. (I, II, III, V, VI) (October) CS, LS**
- A. Make a dovetail joint using a jig and a router. (pt)
 - B. Build a simple bookcase with casework construction. (pt)
- 11. Explain and demonstrate the construction of a raised panel door. (I, II, III, IV, V, VI) (October/November/December) CS, LS**
- A. Explain and demonstrate how raised panel doors work. (wt, pt)
 - B. Identify and use the tools required to make a frame. (wt, pt)
 - C. Explain and demonstrate selecting the correct style and rail. (wt, pt)
 - D. Explain and demonstrate setting up jigs on the router table. (wt, pt)
 - E. Explain and demonstrate using a cathedral or arched door template. (wt, pt)
 - F. Explain and identify the various raised panel bits. (wt)
 - G. Explain and demonstrate assembly of a raised panel door. (wt, pt)

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Woods II (continued)

12. Construct a simple cabinet utilizing the techniques learned. (I, II, III, IV, V, VI)
(October/November/December) **CS, LS, HOTS**

- A. Complete the design process. **(pt)**
- B. Safely and efficiently layout and cut pieces. **(pt)**
- C. Safely and efficiently assemble pieces. **(pt)**
- D. Safely and efficiently prepare for finish. **(pt)**
- E. Safely and efficiently finish project. **(pt)**
- F. Evaluate the project. **(to)**

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Resources: Handouts, textbooks, power wood tools, wood, nails, nail guns, hammers, sand paper, biscuit cutter, dowel rod, dado blades, miter saw, mortis-and-tenon cutter, dovetail jig and router cutter, router table, raised panel door bits, screws, spray gun, finish, stain, tack cloth