Course Name: Woods 1

Unit 1 - General Safety and Woodworking Laboratory Safety

Essential Questions (from learning targets)	**Content Area**	**Skills / Learning Priority**	**Standards**	**Common Assessments**
How does machine safety contribute to successful project completion?	Construction	• Students will be able to recognize and discuss safety rules that apply to machines in the Woods Technology Lab and Industry. • Students will demonstrate safe machine operation.	AC1: Students will be able to select and use architecture and construction technologies. Standard: BB1: Students will analyze the core concepts of technology.	
Unit Vocabulary • Occupational Safety and Health Administration (OSHA), crosscut, rip, dado, rip fence, push stick, featherboard, jig, clamp				

Resources
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Unit 2 - Machines and Hand tools

Essential Questions (from learning targets)	**Content Area**	**Skills / Learning Priority**	**Standards**	**Common Assessments**
How do power tools increase efficiency and accuracy of cabinet making?	Construction	● Students will become acquainted with hand tools. ● Students will become acquainted with power tools ● Students will provide demonstrations of power tools.	AC1: Students will be able to select and use architecture and construction technologies. Standard: BB1: Students will analyze the core concepts of technology.	

Unit Vocabulary

- Table saw, crosscut, rip, rip fence, arbor, arbor nut, dado, dado head, router, router bit, grain, guard, end grain, brake, surfacer, chipping, warp, cup, wind, crook, bow, twist, edge, end, face

Resources
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Unit 3 - Measurement and Drawings

Essential Questions (from learning targets)	**Content Area**	**Skills / Learning Priority**	**Standards**	**Common Assessments**
How does measurement allow uniformity? What is the purpose of sketching in a wood lab?	Construction	● Students will become acquainted with measurement tools required in a woods lab. ● Students will be able to accurately read measurement scales to 1/16th of an inch. ● Students will create sketches and working drawings. ● Students will provide a bill of materials and calculate board footage.	Standard: AC1: Students will be able to select and use architecture and construction technologies. Standard: MNF1: Students will be able to select and use manufacturing technologies.	

Unit Vocabulary

- Steel rule, tape measure, scale, caliper, carpenter's square, combination square, framing square, scratch awl, straight edge, utility knife, vise dog

Resources
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Unit 4 Materials

Essential Questions (from learning targets)	**Content Area**	**Skills / Learning Priority**	**Standards**	**Common Assessments**
How will different species of materials affect project outcomes?	Construction	● Students will be able to identify common species of wood. ● Students will be able to explain two different drying techniques. ● Students will be able to calculate board footage and and square footage.	Standard: AC1: Students will be able to select and use architecture and construction technologies. Standard: ENG2: Students will analyze and demonstrate engineering design.	
Unit Vocabulary ● Annual growth rings, density, dry lumber, hardwood, softwood, air drying, kiln drying, veneer, hardboard, particle board, plywood				

Resources
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Unit 5 Woodworking Joinery

Essential Questions (from learning targets)	**Content Area**	**Skills / Learning Priority**	**Standards**	**Common Assessments**
What fasteners and techniques are acceptable in the woods lab?	construction	● Students will be able to identify fasteners and their uses. ● Students will distinguish the different adhesives and applications. ● Students will appropriately select the proper clamps and techniques needed for fastening materials together.	Standard: MNF1: Students will be able to select and use manufacturing technologies. Standard: AC1: Students will be able to select and use architecture and construction technologies.	

Unit Vocabulary

- Biscuit, dowel, dowel drill guide, doweling jig, dowel joint, dowel rod, edge butt joint, end butt joint, rabbet joint, blind dado, dado, dado joint, lap joint, miter box saw, miter and corner clamp, miter joint, mortise and tenon joint, mortise, tenon, pocket joint, box nail, brad, claw hammer, clinch, common nail, finishing nail, nail set, wire nail, counterbore, countersink, phillips-head, plain screwdriver, wood screw, hardware, veneer

Resources
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Unit 6 Finishing

Essential Questions (from learning targets)	**Content Area**	**Skills / Learning Priority**	**Standards**	**Common Assessments**
How will different finishing techniques affect the outcome of a project?	Construction	● Students will demonstrate sanding techniques relevant to their completed projects. ● Wood filler will be properly utilized. ● Hardware will be installed. ● Stain will be uniformly applied to the project. ● A sealer will be applied for moisture protection	Standard: AC1: Students will be able to select and use architecture and construction technologies. Standard: MNF1: Students will be able to select and use manufacturing technologies.	

Unit Vocabulary

- Bleaching, filling, burning, sealing, solvents, staining, steel wool, tack rag, abrasive paper, dents, gouges, mill marks, refinishing, scratches, penetrating oil stains, pigment stains, synthetic sealers,water stain, liquid paste, cut, lac, shellac, polyurethane varnish, spar varnish, tung oil, brushing lacquer, lacquer thinner, enamel, flat, gloss, high gloss, pigment, semigloss, antiquing

Resources
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