

BLUE VALLEY DISTRICT CURRICULUM & INSTRUCTION

Architecture & Engineering Wood Technologies III



ORGANIZING THEMES INTEGRATED IN PROJECT-BASED LEARNING

FOCUS STANDARDS & SKILLS

BASED LEARNING	
THEME: Safety	Safety and Procedural Skills: KS 460000.2.3 Comply with regulations and applicable codes to establish and manage a legal
Lab Safety	and safe workplace / jobsite.
 Tool Recognition and proper use 	
OSHA safety regulations	Apply all shop safety rules and procedures.
	Apply OSHA safety regulations.
Time Frame: 1 week and Integrated through all units	
THEME: Planning and Designing	Planning and Designing Skills:
Wood characteristics	KS 38007.5 Develop a plan of procedure for constructing a project.
Design Process	KS 17007.5 Plan, design and layout stock for Wood Technology projects.
 Plan, design and layout stock 	NO 17007.5 Flati, design and layout stock for wood reclinology projects.
T. 5 0 1	Career and College Readiness:
Time Frame: 2 weeks	KS 460000.0.2.7 Read, interpret and use technical drawings, documents and specifications.
THEME: Proper use of Tools in Project construction	Construction of complex projects
Use of hand toolsUse of portable power tools	KS 38007.1 Properly use, maintain and care for hand tools common to woodworking industry.
Use of machines	KS 38007.2 Property set up, maintain and care for machines and power tools as they are used for constructing projects.
	38007.4 Select quality wood, based upon strength, appearance, durability requirements of the project.
	KS 17007.5 Perform the steps to interpret, transfer and layout lines &/or markings to be used for constructing a project.
	KS 17007.7 Review "best-methods" for constructing joints.
Time Frame: 15 weeks	KS 17007.2 Apply math skills to control distance, spacing and/or angle measurements and placements for constructing a project. • linear measurement using appropriate device.

THEME Advanced Project Decign and Construction	Construction of advanced projects
THEME Advanced Project Design and Construction	Construction of advanced projects
 Elements and principles of design Joining and assembly Finishing surfaces Production Process 	KS 38007.3 Apply elements and principles of design and knowledge of historical periods to create project plans which fulfill the criteria for the project
	KS 38007.5-6 Create a bill of material, a plan of procedure and cost estimates for a project.
	KS 38007 Utilize the common styles and methods to construct and install cabinet and/or furniture sub-assemblies such as bases, drawers, doors, mouldings, carved appliques, hardware.
	KS 38007.8 Select and perform "best method" for joint construction and fitting for project.
	KS 38007.9 Select and perform "best-method" assembly techniques for cabinet or furniture construction.
Time Frame: 18 weeks	KS 38007.10 Apply a quality finish on a project utilizing appropriate materials and equipment.
 THEME/TOPIC: Career and college readiness Career development skills Teamwork Personal leadership skills Academic integration 	KS 460000.0.1.7 Employ valid and reliable research strategies, including ability to interpret information.
	KS 460000.3.1 Demonstrate time management skills, including prioritizing and ording tasks.
	KS 460000.0.2.1 Solve problems that involve whole numbers, decimals, and fractions including use of appropriate conversions when necessary.
	KS 460000.1.2 Apply appropriate academic (math, science, English, social science) and technical skills.
	KS 460000.3.4 Understand and respond constructively to performance reviews.
	KS 460000.1.5 Consider the environmental, social, and economic impacts of decisions.
	KS 460000.1.6 Employ creativity and innovation.
Time Frame: Integrated through all units	KS 460000.18 Utilize critical thinking to make sense of problems and persevere in solving them.
	KS 460000.1.10 Plan education and career path aligned to personal goals.
	KS 460000.3.2 Create and utilize employment documents including a resume and portfolio.
	KS 460000.3.3 Demonstrate interview skills.