

SPANISH FORK HIGH SCHOOL 2014-2015

DONS Learning Targets for

Furniture Design

I CAN understand basic elements of the woodworking industry.

- I CAN identify Career opportunities in millwork/cabinetmaking.
- I CAN describe the integration of cabinetmaking into construction schedules.
- I CAN identify manufacturing processes related to millwork and cabinetmaking industries.

I CAN demonstrate a working knowledge and understand safe practices using woodworking equipment.

- I CAN demonstrate the ability to work safely in a cabinet shop following general safety rules.
- I CAN demonstrate the safe use of woodworking tools and machinery.
- I CAN define MSDS and know its purpose.
- I CAN identify and explain purpose of hand tools, machinery, and portable power tools.
- I CAN pass a safety test with 100% proficiency and demonstrate safe use of each machine to instructor.

I CAN understand the design, planning, and estimation process.

- I CAN read and use a working drawing to create a project.
- I CAN create a working drawing/design for a piece of furniture.
- I CAN use and create a material list.
- I can develop a cut list of material to be used in construction of a project.
- I CAN Use and create a procedure list.
- I CAN identify common cabinet hardware and the uses for each.

I CAN understand wood products, characteristics, and procedures.

- I CAN distinguish between softwoods and hardwoods.
- I CAN distinguish between solid woods and man mad materials.
- I CAN label and identify a tree cross-section and layer structures of wood.
- I can identify and label different wood species common to cabinetmaking.

I CAN demonstrate and understand basic math and measuring concepts.

- I CAN add and subtract two and three digit numbers.
- I CAN solve two digit divisors.
- I CAN add, subtract, multiply and divide fractions and mixed numbers
- I CAN convert fractions to decimals.
- I CAN reduce fractions.
- I CAN add and subtract linear measurements in feet and inches.
- I CAN use a tape measure/ruler to measure within a sixteenth (1/16) of an inch.
- I CAN demonstrate a knowledge of board footage formula and use it to figure out a bill of materials

I CAN demonstrate and use fasteners and adhesives.

- I CAN identify the various woodworking fasteners and the application for each (nails, screws, staples).
- I CAN properly use adhesives in the construction a project
- I CAN identify and use different type of clamps to properly glue wood in a project. (bar, "C", spring, band, and handscrew)

I CAN identify and demonstrate the use of joinery.

- I CAN identify the basic and advanced woodworking joints.
- I CAN construct a woodworking project using basic joinery.

I CAN understand and demonstrate sanding and finishing techniques.

- I CAN understand and properly apply the basics rules of sanding.
- I CAN properly prepare a surface for finishing.
- I CAN apply stain and/or clear finish.

I CAN understand and apply professional development skills in the work place.

- I CAN be self motivated and understand the need for professional development.
- I CAN understand the need for career planning .
- I CAN understand the importance and apply employability/work habits.

