

**Wilson Central School District**  
**Technology Education Grade 7**

**Unit: Woodworking**

**Teacher: Mr. Harvey**

Day	Lesson	Essential Question	Standards	Vocabulary	Content / Skills	Resources	Specially Designed Instruction	Assessment / Common Assessments
1	Power tool safety	SWBAT: identify each of the 4 main power tools and main components in tech lab that we will use for the project	Math, Science, Technology (MST)	Power Tools Unit Vocabulary Terms	Students can properly identify the difference between the power tools in the tech lab	Teacher generated work sheet	As needed with students with physical disabilities or SPED or 504 accommodation plans.	Power tool parts identification quiz at end of unit
2	Demonstration of skills	SWBAT: demonstrate skills taught under teacher supervision to utilize each tool	Math, Science, Technology (MST)	N/A	Teacher will stand by each student to supervise their first use of each piece of equipment to make sure they do it properly and safely	Visual confirmation	See above	Teacher skill approval
3	Project layout and material identification	SWBAT: identify what plywood is and what dimensional lumber is	Math, Science, Technology (MST)	Wood species chart identification	Students will demonstrate the difference of each by visual identification	Student project matches template	See above	Teacher verification
4	Project cutting: use of band saw	SWBAT: properly make straight and relief cuts in their project material	Math, Science, Technology (MST)	Identification of main parts of band saw	Relief line cutting and straight cutting procedures explained	Tools in tech lab	See above	Teacher verification

5	Project shaping: use of belt/disk sander and spindle sander	SWBAT: properly and safely use both power sanders to shape their cut out name plaque/peg hook rack	Math, Science, Technology (MST)	Identification of main parts belt disk sander and spindle sander	Teacher will stand by each student to supervise their first use of each piece of equipment to make sure they do it properly and safely	Tools in tech lab	See above	Teacher verification
6	Drill Press usage	SWBAT: properly and safely use the drill press to put specific size holes in to fit shaker pegs	Math, Science, Technology (MST)	Identification of main parts of the drill press	Teacher will stand by each student to supervise their first use of the drill press to make sure they do it properly and safely	Tools in tech lab	See above	Teacher verification
7 (2 days of time)	Hand sanding	SWBAT: properly identify different types of sand paper and explain the numbering system used to define individual grits	Math, Science, Technology (MST)	Identification of different grits both visually and by feel/touch	Students will demonstrate the difference of each by visual identification and touch to compared smoothness/roughness	Sand paper handed out to students for their use in the project	See above	Student self-evaluation comparing if their project is smooth enough by comparing it to teacher examples
9 (2 days of time)	LASER	SWBAT: Identify the laser and explain its various uses	Math, Science, Technology (MST)	Worksheet on LASER parts identification	Students will pick out a font of choice to have the laser personalize their project to burn their name into the wood	LASER in tech lab	See above	Student approval of design on the teachers computer before laser process is started
10	Assembly	SWBAT: use a hammer and wood glue to put shaker pegs into their name plaque/peg hook rack	Math, Science, Technology (MST)	Hammer identification Glue types identification	Students will be taught the difference in various hammers and their specific use. They will taught the difference in various glue types and what they are each used for	Hammer: hand tool Wood glue	See above	Scoring Rubric and assessment done first by students to self asses, then by teacher for final project grade
11	Finishing procedure: explanation of stain and polyurethane process. Each students project gets a spray coat of finish lacquer before leaving to go home							