

ALLEN MIDDLE SCHOOL

7TH GRADE TECH. ED.

CONSTRUCTION PROJECT

The Assessments

Miters: The four hardwood corners are cut at 45° angles to the correct length so they fit tightly together without spaces between the two pieces; the four pieces are taller than wide and the same height

Nailing: Nails are installed so that there are four on two opposite sides and three on the two adjacent sides; they are 9/16" from the top of the project; they are driven in lengthwise and not bent over, as evidenced by large wood dough covering; they are set below the surface and covered with wood dough; no nail is visible; the only evidence of a nail is one wood dough circle where each of the 14 nails are set; the hardwood pieces are attached to the plywood so they are all flat on the bottom

Sanding: The hardwood surfaces are sanded so they are all smooth and free of the following defects: splintering, pencil marks, glue, wood dough extending beyond the nail being covered, production marks, machine marks left from cutting or planing, hammer marks, dents left by nails, or scratches across the grain—especially at the corners

Finishing: All wood surfaces have finish applied; the finish has been brushed out so that no defects, such as drips, runs or sags are present; the finish has been rubbed with steel wool—leaving a satiny-smooth surface to the touch and to the eye

Tiling: Tiles are installed so the spaces around and between them are all the same; the tiles are flat; adhesive and grout are not present on the top of the tiles or on any wood surface; all spaces between and around the tiles are filled with grout and the grout is smooth and even

Teacher comments:

Rubric number = grade

25=100%	24=98%	23=96%
22=94%	21=92%	20=90%
19=89%	18=87%	17=86%
16=84%	15=83%	14=81%
13=79%	12=77%	11=75%
10=73%	9=71%	8=70%
7=69%	6=67%	5=65%
4=64%	3=62%	2=61%
1=60%	0=0%	

Assessment Rubric						
Student Name:					Grade 7	
Assignment: Tile Trivet Construction Project						
	5 Excellent	4 Very Good	3 Good	2 Fair	1 Poor	Teacher's Rating
Criteria 1 –Miter*	all corners are tight; all pieces are taller than wide; all pieces are flat on the bottom	one of these is present: space between pieces at corner; a piece is not flat on bottom; a piece is wider than tall	two of the following are present: space between pieces at corner; a piece is not flat on bottom; a piece is wider than tall	three of the following are present: space between pieces at corner; a piece is not flat on bottom; a piece is wider than tall	four of the following are present: space between pieces at corner; a piece is not flat on bottom; a piece is wider than tall	
Criteria 2 – Nailing	all sides have correct number of nails; all nails are 9/16" from top; all nails are covered by one circle of wood dough; all sides are even with the bottom of the plywood	all sides have correct number of nails; all nails are 9/16" from top; nails not visible; multiple nail set marks visible at one nail; all sides are even with the bottom of the plywood	all sides have correct number of nails; all nails are 9/16" from top; nails not visible; multiple nail set marks visible or larger than necessary; all sides are even with the bottom of the plywood	all nails are 9/16" from top; nails may be visible; at least one side does not have the correct number of nails; numerous nail set marks visible or larger than necessary; one or more sides may not be even with the bottom of the plywood	at least one nail installed less than 9/16" from top	
Criteria 3 – Sanding	hardwood surfaces are free of all defects	light scratches visible at corners; hardwood surfaces are otherwise free of all defects	light scratches visible at corners; at least one other defect is visible on the project	light scratches visible at corners; two or more defects are visible on the project	multiple defects visible throughout project; little or no evidence sanding was attempted	
Criteria 4 – Finishing	all surfaces have finish applied and are smooth and free of defects	all surfaces have finish applied; one surface has defects present	all surfaces have finish applied; two or more surfaces have defects present	some areas may be missing finish; two or more surfaces have defects present	not all surfaces are finished; multiple defects are evident	

Criteria 5 – Tiling	tiles are straight & flat; all spaces are completely grouted and grout is even; no grout or adhesive is present on the visible wood surfaces or the tops of the tiles	tiles are straight & flat; all spaces are completely grouted; grout is uneven; no grout or adhesive is present on the visible wood surfaces or the tops of the tiles	no grout or adhesive is present on tops of the tiles; one of the following is present: tiles may be uneven; one area is missing grout; grout or adhesive appears on wood parts of project; grout is not feathered down from the tops of the tiles	two of the following are present: tiles are uneven; one area is missing grout; grout or adhesive appears on the visible wood parts of project and/or tops of tiles; grout is not feathered down from the tops of the tiles	tiles are uneven; multiple areas are missing grout; grout or adhesive appears on wood parts of project and the tops of tiles	
				total pts. = grade →		

*grade may be lowered based on how many extra pieces used—2 extra—1 lower; 3 extra—2 lower; 4 extra—3 lower and a smaller project