

ALLEN MIDDLE SCHOOL

6TH GRADE TECH. ED. MANUFACTURING PROJECT

The assessments

Cutting & filing: The sheet metal is cut on the appropriate lines; no parts are missing; sharp edges have been filed smooth with no burrs

Forming: Hems are properly formed, located, and are straight; ends and tabs have been formed on the lines; tabs are inside the sides; no unnecessary bends or wrinkles are evident

Soldering: All tabs are pushed in at corners and resting flat against the sides; the solder is smooth from adequately heating and runs from the top to the bottom of the tab; no gaps in the solder are visible

Plastics: Vacuum-formed insert is completely formed and square; sides and ends of insert are folded to right angles; cutting has been done to the proper size; no cracks are evident; injected-molded parts are completely formed; flashing and sprues have been removed

Painting: Spray paint is applied to appropriate parts; paint is applied evenly; marks, such as drips, smears, fingerprints, or sags should not be evident

Rubric number = grade

25=100%
21=93%
17=87%
13=81%
9=75%
5=70%
1=60%

24=98%
20=92%
16=86%
12=79%
8=73%
4=69%
0=0%

23=96%
19=90%
15=85%
11=77%
7=72%
3=66%

22=94%
18=89%
14=83%
10=76%
6=71%
2=63%

Assessment Rubric						
Student Name:					Grade 6	
Assignment: Manufacturing Project						
	5 Excellent	4 Very good	3 Good	2 Fair	1 Poor	Teacher's Rating
Criteria 1 – Cutting & filing	all cuts are made on the lines; all parts are present; all edges are smooth	all cuts are made on the lines; all parts are present; not all edges are smooth	a cut is off the line; no areas removed that should not have been; all edges are smooth	several cuts are off the lines; no areas removed that should not have been; sharp edges are evident	one or more project parts have been cut off	
Criteria 2 – Forming	hems are formed properly and straight; ends & tabs have been formed on the lines; tabs are inside the sides; no unnecessary bends or wrinkles are evident	hems are formed properly and straight; ends & tabs have been formed on the lines; tabs are inside the sides; bends or wrinkles are evident	a hem or side has been formed off the lines causing it to be crooked; sides and corners are not even; bends or wrinkles are evident	sides are crooked and corners are not level; unnecessary bends & wrinkles are evident	sides are crooked and corners are not level; unnecessary bends & wrinkles are evident; the bottom of the box does not have square corners	
Criteria 3 – Soldering	all tabs are pushed in at corners; tabs are flat against the sides; solder is smooth and runs the length of the tab; solder has sealed the tab to the side without gaps	one of the following is not evident: a corner is not pushed in; tabs are flat against the sides; solder is smooth and runs the length of the tab; no gaps in solder are evident	two of the following are evident: a corner is not pushed in; a tab is not flat against the side; solder is rough from not heating adequately; it does not run the length of the tab	three of the following are evident: a corner is not pushed in; a tab is not flat against the side; solder is rough from not heating adequately; it does not run the length of the tab	more than one corner is not pushed in; tabs are not flat against the sides; solder is not sealing the edges of the tabs due to improper positioning	
Criteria 4 – Plastics	insert is completely formed, square & sides have been folded to a right angle; no cracks are evident; cuts are made to proper size; all injection-molded parts are present & completely formed; flashing is removed	injection-molded parts are completely formed & flashing is removed; one of these is evident: insert is not completely formed, or square; sides have not been cut to proper size; cracks are evident	injection-molded parts are completely formed & flashing is removed; two of these are evident: insert is not completely formed, or square; sides have not been folded to a right angle or cut to proper size; cracks are evident	insert is poorly formed & fits poorly; cracks may be evident; injection-molded parts are completely formed & flashing is removed	insert is missing parts or poorly formed & fits poorly; cracks are evident; injection-molded parts are missing or not completely formed & flashing is evident	
Criteria 5 -- Painting	appropriate areas are evenly painted & no marks or runs are evident	one surface has uneven paint or marks or runs are evident	two surfaces have uneven paint or marks or runs are evident	three surfaces have uneven paint or marks or runs are evident	four surfaces have uneven paint or marks or runs are evident	
				total pts. = grade →		

Teacher Comments:

