MSE 227L Charpy impact testing

	Poor	Fair	Average	Good	Excellent
Memorandum Format Used	1	2	3	4	5
Spelling, grammar, & punctuation correct	1	2	3	4	5

Report includes:	Poor	Fair	Average	Good	Excellent
Include table of results (measured values, averages and standard deviations).	2	4	6	8	10
For aluminum and steel, graph <u>changes in</u> <u>width</u> vs. test temperature; overlay graphs	2	4	6	8	10
Graph shear lip % vs. test temperature; overlay graphs for aluminum and steel.	2	4	6	8	10
Graph <b><u>impact energies</u></b> vs. test temperature; overlay graphs for aluminum and steel.	2	4	6	8	10
For <u>steel</u> , graph average fracture energy, upper and lower standard deviation versus temperature on the same chart. (3 curves overlaid on 1 graph)	2	4	6	8	10
For <u>aluminum</u> , graph average fracture energy, upper and lower standard deviation versus temperature on the same chart. (3 curves overlaid on 1 graph)	2	4	6	8	10
Relate the type of fractures observed (e.g. shear or cleavage) to the test temperatures.	1	2	3	4	5
Compare the variation of impact energy with temperature observed for 1018-steel and (2024 or 6061) Aluminum.	1	2	3	4	5
Relate type of fracture observed to the <b>energy absorbed</b> by the metal being fractured.	1	2	3	4	5

	Poor	Fair	Average	Good	Excellent
Overall level of effort apparent	1	2	3	4	5
Quality of graphs	1	2	3	4	5
Quality of Abstract	1	2	3	4	5
Quality of work description	1	2	3	4	5
Quality of conclusions	1	2	3	4	5

Name \_\_\_\_\_