Mech 310 Lab Report Rating Rubrics		**(Name:**		**)**	
		4.0 **Exceeds** **expectations** **(~100%)**	**3.0** **Meets** **expectations** **(~85%)**	**2.0** **Need** **improvement** **(~70%)**	**1.0** **Need** **significant** **improvement** **(~55%)**
Rhetorical Knowledge and Awareness	**Rhetorical Knowledge and Awareness Total Score**	4.0 3.5	3.0 2.5	2.0 1.5	1.0
	1) Establishes purpose using clearly stated objective, written in executive summary and introduction.				
	2) Address audience's expectations, including well-defined and concise descriptions of experimental processes, analyses, and interpretation and effective summarization, particularly in executive summary.				
	3) Applies appropriate rhetorical (mostly logical) appeals when interpreting the data and credible sources.				
	3) Appeals to an audience's reasoning powers by establishing cause/effect relationships and confining commentary to the object of study.				
Critical Thinking and Composing	**Critical Thinking and Composing Total Score**	4.0 3.5	3.0 2.5	2.0 1.5	1.0
	1) Demonstrates knowledge of the subject and use of specialized concepts or theories.				
	2) Presents data, analysis results, and the chain of logic connecting them, both qualitatively and quantitatively.				
	3) Presents the data with appropriate choice of figure or table to support claims.				
	4) Evaluates reliability and accuracy of data.				
	5) Demonstrates critical thinking process by actively analyzing, synthesizing, and/or evaluating information gathered from the data and/or sources.				
Conventions (Style)	**Conventions Total Score**	4.0 3.5	3.0 2.5	2.0 1.5	1.0
	1) Presents sections and subsections appropriately named, labeled, and formatted.				
	2) Establishes stand-alone figures and tables by detailed labeling.				
	3) Includes references, properly placed and accurately cited.				
	4) Demonstrates error-free documentation controlling of mechanics and style.				

Your lab evaluation score (100 max) = Report submission score 40 + (RKA score + CTC score + C score) × 5

Detailed Explanations for "Results and Discussions"

Grading	Level of completion	Level of study/research	Level of formatting and grammar	Example sentences
Exceeds expectations	Answer all the lab handout questions with supporting data.	Reference books, Research papers, Class textbook, Internet	Section titles Figures/Tables are self-explaining (Numbers, Titles, Well-labeled) Referencing outside resources well, Necessary pictures with proper titles, Page number	"The greater electrical resistivity ($2X10^{14}$ ohm-m) and impact strength (1.5 to 18 ft-lb/in) of the more expensive polycarbonate was used for the real cell phone case even with the high cost ($ 4.85-5.3 /kg) (Matweb.com, 2014). A cheaper polymer, polystyrene ($1.0 – 1.1 /kg), with relatively low electrical resistivity ($1X10^{14}$ ohm-m) and impact strength (1 to 4 ft-lb/in) was used for a toy phone (Kim et al, 2012) , which might have lower criteria as far as quality."
Meets expectations	Answer some of lab handout questions with supporting data.	Class textbook, Internet	Titles for Figures/Tables Referencing	"We can conclude that the design of the phone and the usage of material is dependent on the application, the real cell phone case has a higher cost material (polycarbonate $ 4.85-5.3 /kg) with better properties that will resist more impacts and also will be a good insulator for the electronic component [1]."
Need improvement	Answer some of lab handout questions.	Internet	No titles for Figures/Tables	"The cellular phone was made out of a different material possibly because it is a little bit more durable than the material used on the toy phone. The price of polycarbonate is a little more than the polystyrene, but the pros of using that material must have outweighed the extra-cost."
Need significant improvement	Answer only a few (or none of) lab handout questions.	Nothing (Just out of brain storming)	Typo errors No titles for Figures/Tables	"This lab went well and our test came out very well. This lab was a success."