

## Data Analysis Rubric

Use this rubric to provide basic expectations for the data analysis students conduct and present.

↓Category Rating→	4 (best)	3	2	1
Individual Group Sample Data Analysis  (time plot)	Representation of individual sample including titles, appropriate scale, and statistical analysis (mean, median, standard deviation).	Student provides a graphical representation for individual data. Representation is missing titles, scales, or statistical analysis.	Student provides statistical analysis of individual sample only.	No graphical representation or statistical analysis.
Group Data Analysis (multiple time plots)	Representation of the average temperature for the group samples including titles, appropriate scale, and statistical analysis (mean, median, standard deviation). Representation shows the group data and each individual sample.	Representation of the average temperature for the group samples including titles, appropriate scale, and statistical analysis (mean, median, standard deviation).	Student provides a graphical representation for group average data. Representation is missing titles, scales, or statistical analysis.	No graphical representation or statistical analysis.
Group Data Analysis (multiple box plots)	Representation of statistical analysis for each sample taken.	Representation of statistical analysis of group averages.	Provided statistical analysis in words only.	No statistical analysis.
Sensor Accuracy	Students use the data to calculate the accuracy of the sensors used in the experiment.			Accuracy measurement not given.