MBF-3C Environmental Assessment Activity

	Level 1	Level 2	Level 3	Level 4
Knowledge and Understanding - predictions (M2 #4 and 5)	- extrapolated data with limited effectiveness	- extrapolated data with some effectiveness	- extrapolated data with considerable effectiveness	- extrapolated data with a high level of effectiveness
- identify appropriate population, sample, techniques, etc. (M3 #1)	- population, sample and techniques identified with limited effectiveness	- appropriate population, sample and techniques identified with some effectiveness	- most appropriate population, sample and techniques identified with considerable effectiveness and few to no errors	- most appropriate population, sample and techniques identified with a high level of effectiveness with no errors and extra insight
Thinking - choosing how to represent the data (M1)	- data represented with limited effectiveness in a variety of ways	- data represented with some effectiveness in a variety of ways	- data represented appropriately in a variety of ways with considerable effectiveness	- demonstrates additional insight when representing data in a variety of ways and with a high degree of effectiveness
- plan for survey analysis (M3 #3 and 4)	- analysis plan and summary list of recommendations based on hypothesized results completed with limited effectiveness	- analysis plan and summary list of recommendations based on hypothesized results completed with some effectiveness	- analysis plan and summary list of recommendations based on hypothesized results completed with considerable effectiveness	- analysis plan and summary list of recommendations based on hypothesized results completed with a high level of effectiveness
Communication - Presentation (M3#5)	- graphs are included, displayed, and analyzed with limited effectiveness - environmental impact and possible solutions discussed with limited effectiveness	- graphs are included, displayed, and analyzed with some effectiveness - environmental impact and possible solutions discussed with some effectiveness	- graphs are included, displayed, and analyzed with considerable effectiveness - environmental impact and possible solutions discussed with considerable effectiveness	- graphs are included, displayed, and analyzed with a high degree of effectiveness - environmental impact and possible solutions discussed with a high degree of effectiveness and extra insight
- Reflection (M3 #6)	- reflection discusses required components with limited detail and effectiveness	- reflection discusses required components with some detail and effectiveness	- reflection discusses required components with considerable detail and effectiveness	- reflection exceeds required components and discusses a high level of detail and effectiveness
- uses proper conventions, neat, labeling, etc. (assessed throughout project)	- infrequently uses mathematical language, symbols, visuals and conventions correctly	- uses mathematical language, symbols, visuals, and conventions correctly some of the time	- uses mathematical language, symbols, visuals, and conventions correctly most of the time	- routinely uses mathematical language, symbols, visuals and conventions correctly and efficiently
Application - Graphing and creation of algebraic math models (M2 #2 and 3)	- graphing and creation of algebraic math models completed with limited effectiveness	- graphing and creation of algebraic math models completed with some effectiveness	- graphing and creation of algebraic math models completed with considerable effectiveness	- graphing and creation of algebraic math models completed with a high degree of effectiveness
- survey creation (M3 #2) (7-15 questions, open/closed, >1 type of data, demographic data)	- survey meets required criteria with limited effectiveness	- survey meets required criteria with some effectiveness	- survey meets required criteria with considerable effectiveness	- survey meets required criteria with a high degree of effectiveness