

Rubric for student group presentation of experiment and findings (Explore section)

Student-group presentation of experiment and findings				
	5 pts	3 pts	1 pts	0 pts
Methods	Methods include well-articulated, sequentially numerated steps with specific details that can be duplicated.	Methods include sequentially numerated steps that lack thoroughness and detail.	A partial description is given but with little reference to specific information needed to assure duplication.	Group provides only a vague description of steps taken to explore the interaction of variables with severe lack of details.
Results	Results are clearly stated and supported with graphic representation of the data including all required elements of a table or graph.	Results are clearly stated with adequate graphical representation of the data that lacks some elements.	Results are partially described with graphic representation of the data that lacks some elements.	Results are not comprehensible and lack a thorough graphical representation of the data.
Solution	Group provides a well-articulated interpretation of the results including a thorough analysis of the results based on evidence.	The results are sufficiently interpreted and analyzed with some consideration of evidence.	The results are sufficiently interpreted and analyzed with no consideration of evidence.	The interpretation and analysis of results are insufficient and includes no regard for evidence.
Relatable to the real world	The findings are clearly and concisely related to observed phenomena in the real world.	The findings lack detail and completeness, but do relate to observed phenomena in the real world.	Group demonstrates only superficial understanding of the manner in which the findings relate to real-world phenomena.	Group demonstrates little understanding of how the findings relate to real-world phenomena.

Total Points: ___ out of 20

Rubric for student group presentation of experiment and findings (Elaborate section)

Student-group presentation of experiment and findings				
	4 pts	3 pts	2 pts	1 pts
Research question	Question includes well-conceptualized independent and dependent variables that are measureable.	Question includes adequate independent and dependent variables that are measurable.	Question includes adequate independent and dependent variables but measurements are not accurately specified.	Question is poorly conceptualized with vague description of variables.
Methods	Methods include well-articulated, sequentially numerated steps with specific details that can be duplicated.	Methods include sequentially numerated steps that lack thoroughness and detail.	A partial description is given but with little reference to specific information needed to assure duplication.	Group provides only a vague description of steps taken to explore the interaction of variables with severe lack of details.
Results	Results are clearly stated and supported with graphic representation of the data including all required elements of a table or graph.	Results are clearly stated with adequate graphical representation of the data that lacks some elements.	Results are partially described with graphic representation of the data that lacks some elements.	Results are not comprehensible and lack a thorough graphical representation of the data.

Solution	Group provides a well-articulated interpretation of the results including a thorough analysis of the results based on evidence.	The results are sufficiently interpreted and analyzed with some consideration of evidence.	The results are sufficiently interpreted and analyzed with no consideration of evidence.	The interpretation and analysis of results are insufficient and includes no regard for evidence.
Relatable to the real world	The findings are clearly and concisely related to observed phenomena in the real world.	The findings lack detail and completeness, but do relate to observed phenomena in the real world.	Group demonstrates only superficial understanding of the manner in which the findings relate to real-world phenomena.	Group demonstrates little understanding of how the findings relate to real-world phenomena.

Total Points: ___ out of 20