

Team Name: _____

eCYBERMISSION Grading Rubric – Experimental Design (Scientific Inquiry)

Criteria	Point Scale	Comments	Score
Appropriate use of scientific equipment, materials and technology as part of the experiment	0-5: Does not state (0), answers but not appropriate materials for experiment (5) 6-9: Lists materials, but the materials are vague, many missing, some not appropriate 10-13: Lists specific materials and equipment, some missing or not appropriate 14-16: Lists specific materials, equipment and technologies, one or two missing 17-20: Lists specific materials, equipment and technologies that are appropriate for experiment		
Accurately identifies the control group and constants	Add 10 points - Identifies the appropriate control group Add 10 points - Identifies all constants Deduct points for missing constants - i.e. if 5 constants are needed, deduct 2 points per missing constant		
The proposed experiment is conducted sufficiently (qualitatively and quantitatively) and is a valid test of the hypothesis	0-7: No experiment listed (0), no details or does not test hypothesis (up to 7) 8-15: Describes an experiment that tests the hypothesis, lacks details, missing many steps 16-23: Tests the hypothesis, lists steps, missing steps and/or details 24-31: Tests the hypothesis, minor steps or details missing 32-40: Tests the hypothesis and can be replicated by anyone		
Use of an original, resourceful and novel approach to conducting the experiment	0-5: Does not state (0), answers but not original, resourceful or novel (5) 6-9: Experiment is either original, resourceful or novel (only one) 10-13: Experiment is either original, resourceful or novel (only one but is very detailed) 14-16: Experiment is either original, resourceful or novel (only two) 17-20: Experiment is either original, resourceful and novel (all three)		
Appropriate use scientific terminology	0-3: Does not use at all (0) or very minimal (3) 4-5: Use of scientific terminology is limited 6-7: Uses some appropriate terminology, some inaccurate 8-9: Uses appropriate terminology throughout 10: Uses appropriate terminology throughout, uses significant digits		

Proper use of grammar, spelling, and punctuation	0-3: 11 or more errors in document 4-5: Correct grammar, spelling, and punctuation throughout (9-10 errors) 6-7: Correct grammar, spelling, and punctuation throughout (5-8 errors) 8-9: Correct grammar, spelling, and punctuation throughout (1-4 minor errors) 10: Correct grammar, spelling, and punctuation throughout (no errors)		
Total	Max Points = 120		