

Bacteriophages Bringing Research into the Classroom – Brandl, et al.

Appendix G. Teacher Research Report Evaluation Rubric

Research Paper Rubric

Teacher's Name:

Topic:

_____ scored out of 22

Project Components	Component scores and notes 0 = absent, 1= present, 2= ideal
Abstract Clearly states problem and question studied Clearly summarizes: <ul style="list-style-type: none"> ○ Methods ○ Results ○ Conclusions 	
Introduction/Background/Literature Review <ul style="list-style-type: none"> ○ Provides background research on topic ○ summarizes important findings from literature ○ Describes problem ○ Justifies study ○ Explains significance 	
Research question Includes a testable research question <ul style="list-style-type: none"> ○ Has variables ○ identifies subjects ○ Identifies assumptions Includes hypothesis/alternative hypotheses as part of research question or separately: States the research and null/alternative hypotheses	
Research Methods Describes the research method(s) <ol style="list-style-type: none"> 1. Describes research subject(s) <ul style="list-style-type: none"> ○ Common and scientific name ○ Brief description of subject AND/OR, Describes research system/concept Describes why it is of interest	
Project Components	
Describes sampling method <ul style="list-style-type: none"> ○ Type, number, location, time of data collection ○ Sampling strategy, e.g. randomization technique Controls	
Describes data recording method Includes materials/tools used in data collection	
Includes analysis/analyses) conducted <ul style="list-style-type: none"> ○ Describes (conceptually) comparisons/ relationships/ characteristics Describes statistical analysis/analyses) used	

Project Components	Component scores and notes 0 = absent, 1= present, 2= ideal
Results/Findings <ul style="list-style-type: none"> ○ Presents findings in text and graphic forms (tables/graphs) ○ Connects to research question ○ Interprets data accurately Explains findings clearly	
Discussion/Conclusion <ul style="list-style-type: none"> ○ Restates research question/hypotheses ○ Synthesizes information Supports or refutes hypotheses based on data	
References Includes references, bibliography suggested resources	
Demonstrates comprehension of findings and/or connections to science content learned in BRIC training e.g.: <ul style="list-style-type: none"> ○ Bacteriophages/phage biology ○ Microbiology/mycobacteria ○ Microbes ○ Viruses ○ Bacteria/bacterial evolution ○ Antibiotic resistance ○ Genetic characterization 	

Additional Notes: