

Exceeds Expectations (DEEP DIVE)	Meets Expectations	Approaching Expectations	Does Not Meet Expectations
Students' data shows deep understanding of the use of multiple trials, longitudinal data, and other data analysis concepts such as outliers, standard deviation, etc. The analysis of both variables is advanced. The student shows a confident understanding of correlation vs. causation.	Student describes the schoolyard environment using qualitative/quantitative data on temperature and luminosity of various surfaces. The relationship between heat and surface type is explained.	Student has collected data but there may be some flaws, such as only one or two trials (days). There may be some flaws in the analysis.	Student data, graphs, and/ or analysis is missing
Student research is extensive and uses multiple layers of sources/texts to support their explanation (ie beyond a simple web search). The student might use interviews of experts or other sources that are not as easily obtained.	Construct an explanation from evidence that describes how UHI disproportionately affects certain communities more than others using various resources. Explains the importance of addressing UHI and human impact in the community.	Student research is limited and/or uses sources that are somewhat inappropriate or invalid.	Student research is incomplete or missing.
Design solution is lobbied within the community and student actively seeks out support for their design to make it a reality.	Student designs a solution to UHI in their schoolyard. Solution is visually represented and described in writing. Design decisions are supported by data/research and meet criteria/constraints.	Schoolyard design decisions do not connect well to research and data. Description is incomplete.	Schoolyard design is missing required elements and/or written description.