

Data Analysis for Evidence of EfSC Principles

EfSC Principles:	Evidence of EfSC Principles in Data Analysis
<p>1. Using community members' ideas in engineering</p>	<p>A. Evidence that students worked with their community to include their ideas through the engineering design cycle.</p> <p>B. Evidence that students actively collected the community's feedback through surveys, community feedback sessions and other forms.</p> <p>C. Evidence that students incorporated community members' ideas in the design cycle based on analysis of survey results.</p>
<p>2. Helping the community solve their problems through engineering</p>	<p>A. Evidence that students actively involved the school/classroom community in defining the problem and designing the solution.</p> <p>B. Evidence that students addressed the problem defined by the community member based on the data collected from the instrument used (e.g., survey).</p>

	<p>C. Evidence the designed solution clearly addressed social aspects of the defined problem based on the community's idea.</p>
<p>3. Caring about the environment</p>	<p>A. Evidence students designed a plan to maximize the materials provided to complete their design and followed it through their design with the necessary iterations.</p> <p>B. Evidence students were sure to include reusable and renewable materials in their design.</p> <p>C. Evidence the electrical design for the renewable energy source works efficiently.</p> <p>D. Evidence the artifact seems durable and resilient.</p>
<p>4. Design solutions for now and in the future [Sustainable/Environmental innovation for community well-being]</p>	<p>A. Students presented evidence of how they balance their design's trade-off toward the improvement of the community's well-being.</p> <p>B. The trade-offs included in the design were made based on the final users and community's well-being.</p>