Figure 5: Example rubric

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| **Objective** | **Excellent** | **Proficient** | **Needs improvement** | **Not included in response** |
| Describe how a lunchbox can be used as a model for thermal energy transfer (five sentences minimum). | Response includes a description of the flow of energy into and out of the system. | Response includes a description of the interaction of warm and cool air. | Statement shows the lunchbox can be a model, but does not describe how. | Not present |
| Explain the design and construction of the modification to minimize thermal energy transfer (three sentences minimum). | Response includes a description of how the design minimizes thermal energy transfer by articulating how the energy is transferred. | Response includes a description of the design choices made to minimize thermal energy transfer. | Response includes a description of the design choices. | Not present |
| Show evidence of initial testing and testing of modified device to minimize the transfer of thermal energy (attach recorded data and a two-sentence explanation of the evidence). | Response includes a description of how thermal energy transfer was tracked, as well as carefully recorded data. | Response includes carefully recorded data and a statement about the minimization of thermal energy transfer. | Carefully recorded data with no explanation | Not present |
| Design a lunchbox with a modification and correctly sewn temperature sensor design. | Lunchbox shows evidence of a modification and correctly sewn temperature sensor design. | Lunchbox shows evidence of a modification and incorrectly sewn temperature sensor design. | Lunchbox shows no evidence of modification. | Not present |