

Student _____

<p>SCIENCE RUBRIC DON'T LOSE YOUR COOL</p>
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Level Criteria	4 Excellent	3 Proficient	2 Adequate	1 Limited *	Insufficient / Blank *
<p>Designs and justifies choice of materials (STS & K 1.3, STS & K 3.3, S-IP4, S-PR1, S-PR4, S-CT1)</p>	Provides concise drawing along with detailed and insightful explanations of design and material selection.	Provides accurate drawing along with clear and logical explanations of design and material selection.	Provides generally accurate drawing along with partial and reasonable explanations of design and material selection.	Provides basic drawing along with vague and unsupported explanations of design and material selection.	No score is awarded because there is insufficient evidence of student performance based on the requirements of the assessment task.
<p>Constructs device (S-PR4)</p>	The constructed device is a precise representation of the design.	The constructed device is an accurate representation of the design.	The constructed device is a basic representation of the design.	The constructed device is an impractical representation of the design.	
<p>Tests effectiveness of device (S-AI4)</p>	The device is effective in keeping the insect completely imbedded within the ice cube.	The device is effective in keeping most of the insect imbedded within the ice cube.	The device is effective in keeping a small portion of the insect imbedded within the ice cube.	The device is not effective. Little if any of the insect remains imbedded within the ice cube.	
<p>Provides explanation (STS & K 1.3, STS & K 3.3, S-CT1)</p>	Provides a compelling explanation to how the transfer of thermal energy affected the prototype using effective scientific vocabulary.	Provides a meaningful explanation to how the transfer of thermal energy affected the prototype using appropriate scientific vocabulary.	Provides a plausible explanation to how the transfer of thermal energy affected the prototype using simplistic scientific vocabulary.	Provides a vague explanation to how the transfer of thermal energy affected the prototype using incorrect scientific vocabulary.	

* When work is judged to be limited or insufficient, the teacher makes decisions about appropriate intervention to help the student improve.