

# Heat Transfer Lab

Re-Energy  
Marking Rubric  
Grade Level 7-12



Criteria	Level 1	Level 2	Level 3	Level 4
<b>Lab Process and Safety Procedures</b>	<ul style="list-style-type: none"> <li>Learner has not followed lab procedures</li> </ul>	<ul style="list-style-type: none"> <li>Learner has somewhat followed lab safety procedures</li> </ul>	<ul style="list-style-type: none"> <li>Learner has followed lab safety procedures</li> </ul>	<ul style="list-style-type: none"> <li>Learners has fully followed lab safety procedures</li> </ul>
<b>Gather &amp; Evaluate Information</b>	<ul style="list-style-type: none"> <li>Is unable to integrate information to address the Driving Question</li> </ul>	<ul style="list-style-type: none"> <li>Attempts to integrate information to address the Driving Question</li> <li>Significant errors are made in reporting data; inappropriate units or levels of precision are used</li> <li>Errors in rounding or significant figure usage are common.</li> <li>Some data are missing or incomplete</li> </ul>	<ul style="list-style-type: none"> <li>Integrates relevant and sufficient information to address the Driving Question</li> <li>Qualitative and quantitative data are reported. SI units and precision are correct based on the instruments used</li> <li>Only minor errors in rounding or significant figures are present</li> </ul>	<ul style="list-style-type: none"> <li>Integrates relevant and sufficient information to address the Driving Question</li> <li>Qualitative and quantitative data are clearly and concisely reported. SI units and precision are correct based on the instruments used</li> <li>No errors in rounding or significant figures are present</li> </ul>
<b>Thinking &amp; Inquiry</b>  Use of problem-solving skills & creative/critical thinking processes	<ul style="list-style-type: none"> <li>Missing, academically dishonest, or does not partially meet</li> </ul>	<ul style="list-style-type: none"> <li>Some significant sources of error are missing or incorrectly explained</li> </ul>	<ul style="list-style-type: none"> <li>The most significant sources of error are identified and correctly explained</li> </ul>	<ul style="list-style-type: none"> <li>All significant sources of error are identified and correctly explained</li> </ul>

Criteria	Level 1	Level 2	Level 3	Level 4
<b>Communication</b>  Use of vocabulary, terminology, organization & conventions	<ul style="list-style-type: none"> <li>• Able to use conventions, vocabulary, and terminology related to topic</li> <li>• Information is not organized, missing, academically dishonest, or does not partially meet.</li> </ul>	<ul style="list-style-type: none"> <li>• Able to use conventions, vocabulary, and terminology related to topic</li> <li>• Information has some organization, insufficient. Illustrations to support the report. Those used may be incomplete, inaccurate, and haphazard</li> </ul>	<ul style="list-style-type: none"> <li>• Able to use conventions, vocabulary, and terminology related to topic</li> <li>• Information is clearly organized. All illustrations are accurate, purposeful, usable, and include a title, appropriate labels, and units</li> </ul>	<ul style="list-style-type: none"> <li>• Able to use conventions, vocabulary, and terminology related to topic</li> <li>• Information is effectively organized. All illustrations are accurate, purposeful, well designed, and include a descriptive title, appropriate labels and unit.</li> </ul>
<b>Application</b>  Making Connections	<ul style="list-style-type: none"> <li>• The learner makes a limited number of connections between the project and the world</li> <li>• Missing academically, dishonest, or does not partially meet</li> </ul>	<ul style="list-style-type: none"> <li>• The learner makes some connections between project and the world</li> <li>• Some key patterns, principles, and relationships shown in the results are described and partially connected to the purpose and background information</li> </ul>	<ul style="list-style-type: none"> <li>• The learners make a variety of connections between project and the world</li> <li>• Most key patterns, principles, and relationships shown in the results are correctly described and connected to the purpose and background information</li> </ul>	<ul style="list-style-type: none"> <li>• The learner makes a wide variety of connections between project work and the world</li> <li>• All key patterns, principles, and relationships shown in the results are correctly described and connected to the purpose and background information</li> </ul>
<b>Comments</b>				