

Heat Transfer Lab

Marking Rubric
Grade Level: 7-12



| Criteria | Level 1 | Level 2 | Level 3 | Level 4 |
|--|---|---|--|--|
| Lab Process and Safety Procedures | <ul style="list-style-type: none"> Learner has not followed lab procedures | <ul style="list-style-type: none"> Learner has somewhat followed lab safety procedures | <ul style="list-style-type: none"> Learner has followed lab safety procedures | <ul style="list-style-type: none"> Learners has fully followed lab safety procedures |
| Gather & Evaluate Information | <ul style="list-style-type: none"> Is unable to integrate information to address the Driving Question | <ul style="list-style-type: none"> Attempts to integrate information to address the Driving Question Significant errors are made in reporting data; inappropriate units or levels of precision are used Errors in rounding or significant figure usage is common. Some data are missing or incomplete | <ul style="list-style-type: none"> Integrates relevant and sufficient information to address the Driving Question Qualitative and quantitative data are reported. SI units and precision are correct based on the instruments used Only minor errors in rounding or significant figures are present | <ul style="list-style-type: none"> Integrates relevant and sufficient information to address the Driving Question Qualitative and quantitative data are clearly and concisely reported. SI units and precision are correct based on the instruments used No errors in rounding or significant figures are present |
| Thinking & Inquiry <i>Use of problem-solving skills & creative/critical thinking processes</i> | <ul style="list-style-type: none"> Missing, academically dishonest, or does not partially meet | <ul style="list-style-type: none"> Some significant sources of error are missing or incorrectly explained | <ul style="list-style-type: none"> The most significant sources of error are identified and correctly explained | <ul style="list-style-type: none"> All significant sources of error are identified and correctly explained |
| Communication <i>Use of vocabulary, terminology, organization & conventions</i> | <ul style="list-style-type: none"> Able to use conventions, vocabulary, and terminology related to topic Information is not organized Missing, academically dishonest, or does not partially meet. | <ul style="list-style-type: none"> Able to use conventions, vocabulary, and terminology related to topic Information has some organization Insufficient illustrations to support the report. Those used may be incomplete, inaccurate, and haphazard | <ul style="list-style-type: none"> Able to use conventions, vocabulary, and terminology related to topic Information is clearly organized. All illustrations are accurate, purposeful, usable, and include a title, appropriate labels, and units | <ul style="list-style-type: none"> Able to use conventions, vocabulary, and terminology related to topic Information is effectively organized All illustrations are accurate, purposeful, well designed, and include a descriptive title, appropriate labels and unit. |

| | Level 1 | Level 2 | Level 3 | Level 4 |
|--|--|---|--|--|
| <p>Application</p> <p><i>Making Connections</i></p> | <ul style="list-style-type: none"> The learner makes a limited number of connections between the project and the world Missing academically, dishonest, or does not partially meet | <ul style="list-style-type: none"> The learner makes some connections between project and the world Some key patterns, principles, and relationships shown in the results are described and partially connected to the purpose and background information | <ul style="list-style-type: none"> The learners makes a variety of connections between project and the world Most key patterns, principles, and relationships shown in the results are correctly described and connected to the purpose and background information | <ul style="list-style-type: none"> The learner makes a wide variety of connections between project work and the world All key patterns, principles, and relationships shown in the results are correctly described and connected to the purpose and background information |
| <p>Comments</p> | | | | |