

## Summative Rubric

Criteria	Basic A student who has reached the <i>highest achievement</i> of the Basic level should be able to do the following:	Proficient A student who has <i>just reached</i> the Proficient level should be able to do the following:	Advanced A student who has <i>just reached</i> the Advanced level should be able to do the following:
<b>Science and Engineering Practices</b> LO1.1 – Follow a step-by-step method to solve a problem.	With support, student follows some steps of the design process as they design, create, and test a model.	With support, student follows all steps of the design process as they design, create, and test a model.	Student independently follows the design process as they design, create, test, and revise a model.
<b>Energy—The Sun's Warming Effect</b> LO2 – Sunlight carries energy which warms Earth. Earth materials absorb the Sun's energy differently resulting in varying temperatures.	With support, student designs and builds a model of a structure to reduce the Sun's warming effect.	Student designs and builds a model of a structure to reduce the Sun's warming effect.  With support, student explains how the structure minimizes the warming effect of the Sun.	Student designs and builds a model of a structure to reduce the Sun's warming effect.  Student independently explains how the structure minimizes the warming effect of the Sun.
<b>Collaboration</b> LO5 – Collaborate effectively on a diverse and multidisciplinary team.	Student participates the majority of the time and shares ideas with others.  Student demonstrates flexibility in thinking and behavior some of the time.	Student fully participates and shares their ideas with their group, valuing the contribution of team members.  Student demonstrates flexibility in thinking and behavior most of the time.	Student fully participates and shares their ideas with their group, valuing the contributions of team members.  Student models and encourages others to demonstrate flexibility in thinking and behavior.
<b>Communication</b> LO6 – Communicate effectively for specific purposes using the appropriate platform, tool, format, or digital media.	With support, student accurately describes findings from the Problem.  Student attempts to use the PLTW Launch Log to communicate their thinking.	Student accurately and effectively describes findings from the Problem.  Student uses the PLTW Launch Log to communicate their thinking as directed.	Student justifies findings from the Problem with evidence-based conclusions.  Student uses the PLTW Launch Log to communicate their thinking in detail.
<b>Ethics</b> LO7 – Practice ethical behavior in all settings.	With support, student engages in positive interactions and relationships with other children some of the time.	With support, student engages in and maintains positive interactions and relationships with other children.  Student is kind and respectful when they disagree.	Student independently engages in and maintains positive interactions and relationships with other children.  Student is kind and respectful when they disagree.