## Summative Rubric

| Criteria | Basic<br>A student who has reached the *highest achievement* of the Basic level should be able to do the following: | Proficient<br>A student who has *just reached* the Proficient level should be able to do the following: | Advanced<br>A student who has *just reached* the Advanced level should be able to do the following: |
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| **Science and Engineering Practices**<br>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. |
| **Light**<br>LO3 – Explore objects that can be seen only if they reflect available light or if they give off their own light. | With support, student designs and builds a model of a playground that provides areas of shelter from the Sun's harmful UV rays. | Student designs and builds a model of a playground that provides areas of shelter from the Sun's harmful UV rays.<br><br>With support, student explains the patterns of the Sun and recognizes the harmful effects of UV rays. | Student designs and builds a model of a playground that provides areas of shelter from the Sun's harmful UV rays.<br><br>Student independently explains the patterns of the Sun and recognizes the harmful effects of UV rays. |
| **Collaboration**<br>LO6 – Collaborate effectively on a diverse and multidisciplinary team. | Student participates most of the time and shares ideas with others.<br><br>Student demonstrates flexibility in thinking and behavior some of the time. | Student fully participates and shares their ideas with their group, while valuing the contribution of team members.<br><br>Student demonstrates flexibility in thinking and behavior most of the time. | Student fully participates and shares their ideas with their group, while valuing the contributions of team members.<br><br>Student models and encourages others to demonstrate flexibility in thinking and behavior. |
| **Communication**<br>LO7 – Communicate effectively for specific purposes using the appropriate platform, tool, format, or digital media. | With support, student accurately describes findings from the Problem.<br><br>Student attempts to use the PLTW Launch Log to communicate their thinking. | Student accurately and effectively describes findings from the Problem.<br><br>Student uses the PLTW Launch Log to communicate their thinking as directed. | Student justifies findings from the Problem with evidence-based conclusions.<br><br>Student uses the PLTW Launch Log to communicate their thinking in detail. |
| **Ethics**<br>LO8 – 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.<br><br>Student is kind and respectful when they disagree. | Student independently engages in and maintains positive interactions and relationships with other children.<br><br>Student is kind and respectful when they disagree. |