Rubric for light experiments and scientific inquiry

**Expectations :**

**investigate the basic properties of light**

**use scientific inquiry/research skills to investigate applications of the properties of light**

**use appropriate science and technology vocabulary, in oral and written communication**

* **use a variety of forms to communicate with different audiences for a variety of purposes**
* **identify a variety of natural light sources**
* **describe properties of light, including the following: light travel**
* **in a straight path; light can**  **be absorbed, reflected and refracted**
* **describe how different objects and materials interact with light energy**
* **identify devices that make use of the properties of light**

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| Knowledge/skills | With guided support | With Direct support | Independently | With Mastery |
| **Knowledge and understanding** | **Demonstrates limited knowledge and understanding of concepts an content** | **Demonstrates some knowledge and understanding of concepts an content** | **Demonstrates considerable knowledge and understanding of concepts an content** | **Demonstrates thorough**  **knowledge and understanding of concepts an content** |
| **Thinking and Investigation** | **Demonstrates limited planning, thinking and processing skills** | **Demonstrates some planning, thinking and processing skills** | **Demonstrates considerable planning, thinking and processing skills** | **Demonstrates thorough planning, thinking and processing skills** |
| **Communication** | **Expresses and organizes ideas and information with limited effectiveness -the student rarely uses appropriate science and technology terminology** | **Expresses and organizes ideas and information with some effectiveness -the student sometimes uses appropriate science and technology terminology** | **Expresses and organizes ideas and information with considerable effectiveness -the student usually uses appropriate science and technology terminology** | **Expresses and organizes ideas and information with a high degree of effectiveness -the student consistently uses appropriate science and technology terminology** |