**Research Notes Rubric**

Student Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Project\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| **Goals** | **1**  **Needs Improvement** | **2**  **Acceptable** | **3**  **Outstanding** |
| We can use our notes to create a presentation that focuses on our choice of energy for the project | No presentation created, or information was not based on research notes and data collected | Presentation created, but organization was not clear. Some correlation to the research notes and data | Presentation created that was clear and concise, targeting the chosen energy source and correlated to the notes and data collected |
| We can research costs and use them to make decisions | No costs included | Research notes included some but not all the necessary costs | Research notes included costs per unit (solar or wind device to build and maintain), cost per kwH, average acreage needed and total cost for land and were used to make our decision |
| We can use data collected to make decisions | No data collected | Some data collected, but did not contribute to our decision as it did not include one or more concepts (number of units needed, amount of energy needed) | Data collected on the number of units required to produce sufficient energy and was used to make our decision |
| We can research the pros and cons of the two energy sources | No research conduced | Less than five positive and five negative points were researched | Conducted thorough research that presented at least five positive and five negative points for each energy source |
| We can collect and organize data | No data collected | Missing one or more components of data | Data was collected – The Grid booklet was completely filled out with proper data. Data was collected and organized from the LEGO devices. All data was organized into a clear format for making decisions |
| Citations | No citations listed, citations were incomplete, or used Wikipedia |  | Cited at least three quality sources for our research and properly cited them. |

TOTAL: \_\_\_\_\_\_\_\_\_\_/18