## **Academic Earth and Space Science Final Project 2019, Lanik**

Step 1: Getting the Information for the Project

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| --- | --- | --- | --- | --- |
| **Category** | **4—Exceeds Standard** | **3—Meets Standard** | **2--Partially Meets Standard** | **1—Does Not Meet Standard** |
| **Research Question** | * I can generate a research question that guides my research. * I can generate smaller questions to guide my research process | * I can generate a research question that guides my research. | * I can generate a research question that loosely correlates with my research topic. | * I develop a research question but do not use it OR I do not create a research question. |
| **Research** | * Completes Research Organizer before the deadlines.   + 3 Websites   + Newspaper   + Journal | * Research Organizer mostly complete, but missing either a website, newspaper article, or journal article | * Research Organizer not completed | * Research Organizer not started |

## Step 2: Compiling the information for the Project

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| --- | --- | --- | --- | --- |
| **Category** | **4—Exceeds Standard** | **3—Meets Standard** | **2--Partially Meets Standard** | **1—Does Not Meet Standard** |
| **Webpage Introduction** | * I can synthesize information from multiple resources to formulate a cohesive, detailed, and evidence supported introduction * I can thoroughly explain of the challenges/issues/problems of my topic | * I can synthesize information from multiple resources to introduce viewer to a specific topic supported by evidence * I can explain the specific challenges/issues/problems of my topic | * I can describe specific topic listing information from resources supported by evidence * I can describe the challenges/issues/problems of my topic | * I can list information about specific topic from resources * I can list the challenges/issues/problems of my topic |
| **Webpage Topic Connections to the Earth System (Sphere)** | * I can synthesize information and analyze the connections between my topic and the entire Earth System | * I can synthesize information to describe the connections between my topic and the entire Earth System | * I can describe the connections between my topic and the entire Earth System | * I can list information about the connections between my topic and the entire Earth System |
| **Impacts due to Human Activities** | * I can analyze the connections between human activities and the impacts that they have had on my Webpage Topic | * I can explain the connections between human activities and the impacts that they have had on my Webpage Topic | * I can describe the connections between human activities and the impacts that they have had on my Webpage Topic | * I can list information about how human activities have impacted my Webpage Topic |
| **Technological Solutions to minimize the negative impacts of human activities**  **Evaluate or refine a technological solution that reduces impacts of human activities on natural systems.** | * I can evaluate the scientific knowledge and reasoning for the mitigation/remedy * I can evaluate how it reduces the impact of a problem related to my topic * I can support this solution with data * I can evaluate the benefits and downsides of the solution using evidence * I can refine the technological solution and explain how it will improve efficiency or decrease negative side effects. | * I can explain the scientific knowledge and reasoning for the mitigation/remedy * I can explain how it reduces the impact of a problem related to my topic * I can support this solution with evidence * I can explain the pros and cons of the solutions using evidence | * I can describe the scientific knowledge and reasoning for the mitigation/remedy * I can describe how it reduces the impact of a problem related to my topic * I can describe the pros and cons and vaguely refer to evidence | * I can list the scientific knowledge and reasoning for the mitigation/remedy * I can list how it reduces the impact of a problem related to my topic * I list the pros and cons of the remedy but do not provide evidence |