## **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
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## 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
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| **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
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| **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
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| **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
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