**Design Your Own Alien!**

Hello Earthlings… you have a task at hand and it involves some serious creativity, and some planetary knowledge.

**Your job is to use creative and scientific thinking to design an alien life form suited for life on one of our solar systems planets (besides earth obviously).**

You will be choosing your planet by selecting a piece of paper from your teacher; this way we have some variety (wouldn’t want everyone to choose Neptune for instance).

**Your alien creation must have what all living creatures need to survive:**

* a way to breathe
* a food source and an adaptation they would need to eat that item
* protection from heat and/or cold
* protection from the suns radiation
* a way to sense their environment (touch, taste, smell, hear, see)
* a way to move (based on strong/weak gravity)

**You project will include**

1. A drawing of your alien
   * Coloured and well done
2. A write up with your aliens characteristics (ie. How will your alien survive life on your planet)
   * + Really explain how and why these creations are important.
3. All of your research
   * You will need to do a significant amount of research about your planet in order to understand what characteristics your alien will need. Any research you do will need to be handed in.

OPTIONAL

1. A model of your alien
   * If you want you can use what you have at home to create a model of your alien. We will not have class time to do this, but if you are eager and willing to spend some time at home, GO FOR IT!

**When is it due?**

We will have three class periods to complete this project… the rest will be on your own time.

* **YOUR RESEARCH MUST BE COMPLETED BY THE END OF WEDNESDAY MARCH 11th’s  CLASS**
* **YOUR COMPLETED PROJECT IS DUE ON MONDAY, MARCH 16th.**
* **This will be a key component in our student led conferences next week, so please do your best work.**

**Alien Life Project – Marking Guide**

**Knowledge of the Planet:**

|  |  |  |  |
| --- | --- | --- | --- |
| **4** | **3** | **2** | **1** |
| Student demonstrates an in depth knowledge of the planet they researched.  Research is detailed, thorough and shows great effort. | Student demonstrates a good amount of knowledge of the planet they researched.  Research is detailed, and shows good effort. | Student demonstrates some knowledge of the planet they researched.  Research is present and shows some detail and effort. | Student does not demonstrate knowledge about the planet they researched.  Research is missing and or does not show any detail or effort. |

**Critical Thinking:**

|  |  |  |  |
| --- | --- | --- | --- |
| **4** | **3** | **2** | **1** |
| Student fully explains their decisions in the creation of their alien with appropriate, accurate information.  Student shows immense detail in their explanations and really answers the HOW and WHY of their creation. | Student explains most decisions in the creation of their alien with accurate information.  Student shows great detail in their explanations and answers the HOW and WHY of their creation | Student somewhat explains some decisions in the creation of their project.  Student shows detail in their explanations and attempts to answer the HOW and WHY of their creation | Student does not explain the decisions made in the creation of their project.  Student does not show any detail in explanations and does not answer the HOW and WHY of their creation |

**Science Stem Mark:**

|  |  |
| --- | --- |
| Knowledge of Concepts: | \_\_\_\_\_\_\_\_\_\_ |
| Problem Solving: | \_\_\_\_\_\_\_\_\_ |
| Inquiry and Communication: | \_\_\_\_\_\_\_\_ |