**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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**URGENT!! Calling all DESIGNERS, ZOOLOGISTS and BIOENGINEERS!**

Animals around the world need your help! Temperatures are rising, sea-levels are rising and climates are changing. The ecosystems that animals have lived in are changing very quickly, and many animals will face extinction unless people like you intervene. The traits that have helped certain species to exist in very dry, arid environments will not help the animals to survive if their environment becomes a moist rainforest. Animals around the world are looking to you for guidance on how they can better equip themselves for their changing climates. **QUICKLY!** They need your **HELP!!!**

**Task:** It will be your responsibility, as expert designers, zoologists and problem-solvers to redesign a species so they are able to survive in a new ecosystem.

**Schedule:** During the next three weeks, you will be gathering information and creating your *Extreme Makeover* species.

***Week One***

**Monday** – Intro to Evolution

**Tuesday** – Passing Beans Lab

**Wednesday** – Passing Beans Lab

**Thursday** – No School

**Friday** – No School

***Week Two***

**Monday** – Research Day 1

**Tuesday** – Research Day 2

**Wednesday** – Fork Birds Lab

**Thursday** – Fork Birds Post-Lab

**Friday** – Research Day 3***Week Three***

**Monday** – Build Day 1

**Tuesday** – Peppered Moths Lab

**Wednesday** – Build Day 2

**Thursday** – Presentation Creation

**Friday** – Extreme Makeover Expo

**Project is Due: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Extreme Makeover – Evolution Edition Rubric

Project Components:

\_\_\_ Animal Adaptations Worksheet

\_\_\_ Graphic Organizer

\_\_\_ Image(s) of Animal Pre-Makeover

\_\_\_ Model of Animal Post-Makeover

\_\_\_ Presentation Product

\_\_\_ Works Cited Document

Project Outcomes:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **OUTCOME** | **NY CRITERIA** | **MS CRITERIA** | **ES CRITERIA** |
| **1** | I can use science and engineering skills to **create**, produce or develop a product that models or explains a scientific concept. | In my *Extreme Makeover* model, I was unable to create clear connections between the animals environment and  \_\_ Structural Adaptations  \_\_ Behavioral Adaptations | In my *Extreme Makeover* model, I have provided examples of  \_\_ Structural Adaptations  \_\_ Behavioral Adaptations  \_\_ How the adaptations help the species survive | In my *Extreme Makeover* model, I have **clearly** demonstrated a deep understanding of:  \_\_ Structural Adaptations  \_\_ Behavioral Adaptations  \_\_ How the adaptations help the species survive |
| **3** | I can view and read scientific information in reliable reference books, magazines, and computer databases while **discerning** relevant details and patterns. | I did not use appropriate resources (Library Databases, books, appropriate websites)  **OR**  I did not paraphrase information into my own words | I have used a variety of appropriate resources (Library databases, books, appropriate websites) in my research by either paraphrasing or using direct quotes to support my argument **AND** cited my resources using APA formatting. | MS Criteria **AND** I have demonstrated a clear understanding of *Evolution* and *Adaptations* by blending everyday language with academic language. |
| **4** | I can **communicate** accurate scientific information and ideas clearly, while paying attention to details, grammar, audience and purpose. | \_\_ I struggled to explain scientific concepts using either academic or everyday language  \_\_ My grammar errors make it difficult to understand my argument | \_\_ I have explained scientific concepts accurately by using a blend of academic and everyday language  \_\_ I have only 2-3 grammar errors | **\_\_** My explanations of scientific concepts demonstrate a deep understanding of *evolution* and *adaptations* by blending academic and everyday language  \_\_ I have 0-1 grammar errors |