

MY SURVIVING ANIMAL



Animal Model and Written Report

Due Date: _____

What is the strangest looking animal you have ever seen? How do you think it got that way? Using the information you know about animal survival and body adaptations you will create the most interesting looking animal ever. Be creative, let your imagination flow and have fun.

Project Goal and Requirements:

You will create a hypothetical animal that could live and thrive in a terrestrial biome of your choice and convince us of why it could exist there. You will need to consider all aspects of the design of your animal and its environment. You will need to consider how it will fit seamlessly into an ecosystem found in a biome, and be sure it will not destabilize the equilibrium of that ecosystem.

Your grade will be based on 2 components.

Component 1 (23 points total) Written Report

You will be presenting a written report on why your animal could exist in your chosen biome. The report will require the following components:

A. Introduction - 1-2 Paragraphs (4 points)

You will introduce us to your animal. This paragraph(s) must include the following:

- Includes a name and physical description of your animal. Describe your animal with enough detail so that a peer can see picture your animal without a model.

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B. Biome Profile & Reasoning- 2+ paragraphs (8 points)

-You will argue which biome your animal belongs to by describing how your animal benefits from biotic and abiotic factors or relationships found within the biome. Be sure to address the following points.

- **Abiotic:** (4 points)
 - Describe the geographical/ topographical location of biome benefits to your animal. (relationship to the equator, landforms, waterways, etc)
 - Weather pattern benefits of biome that help the animal thrive(climate, average temperature, rainfall, common weather phenomena)

- **Biotic:** (4 points)
 - What other organisms are on the food chain with your organism? Describe and document where your animal would fall on the food chain and how it is connected to the other consumers and producers in this ecosystem. (a food chain or web will help you to illustrate your point)
 - Why it is suited for that position?
 - Plants/ Vegetation found in the biome that benefit your animal. Do they sustain it? Give it a habitat?
 - All biotic factors mentioned above must be accurate within your given biome (make sure you're not writing about polar bears living in the desert)

C. Survival Functions & Conclusion- 2-3 paragraphs (8 points)

Describe animal body features that allow the animal to thrive in the ecosystem

- **Physical Features:** 4 points
 - Describe body structures that allows animals to move from one place to another and keep it suited to survive the abiotic factors found within a specific biome
 - Describe body structures that help it get food, water, oxygen
 - Describe body structures that help to protect itself from predators or competitors

- **Survival Functions:** 4 points
 - What possible predators or competitors would your animal encounter? How do they use their features and that of the biomes to compete with or defend against other organisms?

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- Can your animal quickly adapt to change? What features make it adaptable or not? Why? (consider temperature, food source, pressure, etc)
- *Conclusion (2 points)*
 - Summarize reasoning for your animal's existence in your biome and conclude by restating your claim.

Please have proper spelling and punctuation throughout.

Your written report MUST be typed, 12 font, double spaced, in one of the following fonts: Times New Roman, Calibri, or Century Gothic

Component 2 (10 points total) Animal Model

(5 points) -Build a model of your animal to present

(0-5 points) -Creative use of materials

-Evidence of effort and personal time commitment

- Components of the written report match the model's appearance including specific adaptations for abiotic and biotic factors within the chosen biome

MY SURVIVING ANIMAL

MY SURVIVING ANIMAL FINAL SCORE

Name: _____

_____(23 points total) Written Report

_____(10 points) Build a Model of your animal

_____/1 Point- Animal matches the description in paper

_____/2 Points- Animal is neat and put together nicely

_____/2 Points - Effort and time are demonstrated in model

_____/1 point - Model is built using creative materials

_____/ 4 points - Model is present during time of presentation

_____ /33 POINTS TOTAL SCORE