Past Present and Future: One Animals’ Change Over Time

Evolution book project

Objective: To create a comprehensive history on a fictitious animal presenting the story of his/her evolution in the format of a book. You will need to include, the different environments, predators, prey and a theory of the animal’s future.

Group member’s names: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Planning Calendar

Write down what needs to be completed each day, use this month at a glance calendar. Your teacher will stamp each date that the deadline was met. Each stamp is worth one point, for a total of ten points.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Monday | Tuesday | Wednesday | Thursday | Friday |
| 1/19/15 | 1/20/15 | 1/21/15 | 1/22/15 | 1/23/15 |
| 1/26/15 | 1/27/15 | 1/28/15 | 1/29/15 | 1/30/15 |

**Design**

Design a SIMPLE imaginary creature who **lives in a cave**

This will be your FIRST creature

Design the same imaginary creature with 4 NEW physical features that **lives in an ocean**

This will be your LAST creature

**Cladogram**

Draw your creatures with an adaptation to fit their new environment, they do not lose any adaptations but gain a new one each time they evolve.

Sea

Swamp

Jungle

Cave

Grassland

**Part 1: Draft Phase**

Answer the following questions in complete grammatically correct sentences

**CAVE Page 2: Organism Description (10pts)**

1. Description of the organism’s physical features (ex: type of eyes, shape of ears)

2. Explanation of how the organism is thriving in its environment (How do the physical features the organism has, make it survive in its environment, be able to obtain food, or avoid predators?)

**CAVE Page 3: Pressure Event (10 points)**

**1.** Description of the pressure (What has changed? Was it the environment? Was it a predator? Was it the food source? Describe it in detail.

2. Explanation of how the pressure affects the organism (How does the pressure change the organisms’ environment/food/predator? What does this do to the organism? Is it now starving? Is it now too hot/cold? How must the organism *adapt* to survive?

**GRASSLAND Page 4: Organism Description (10 points)**

1. Description of the organism’s physical features (ex: type of eyes, shape of ears)

2. Explanation of how the organism is thriving in its environment (How do the physical features the organism has, make it survive in its environment, be able to obtain food, or avoid predators?)

**GRASSLAND Page 5: Pressure Event (10 points)**

**1.** Description of the pressure (What has changed? Was it the environment? Was it a predator? Was it the food source? Describe it in detail.)

2. Explanation of how the pressure affects the organism (How does the pressure change the organisms’ environment/food/predator? What does this do to the organism? Is it now starving? Is it now too hot/cold? How must the organism *adapt* to survive?)

**JUNGLE Page 6: Organism Description (10 points)**

1. Description of the organism’s physical features (ex: type of eyes, shape of ears)

2. Explanation of how the organism is thriving in its environment (How do the physical features the organism has, make it survive in its environment, be able to obtain food, or avoid predators?)

**JUNGLE Page 7: Pressure Event (10 points)**

**1.** Description of the pressure (What has changed? Was it the environment? Was it a predator? Was it the food source? Describe it in detail.)

2. Explanation of how the pressure affects the organism (How does the pressure change the organisms’ environment/food/predator? What does this do to the organism? Is it now starving? Is it now too hot/cold? How must the organism *adapt* to survive?)

**SWAMP Page 8: Organism Description (10 points)**

1. Description of the organism’s physical features (ex: type of eyes, shape of ears)

2. Explanation of how the organism is thriving in its environment (How do the physical features the organism has, make it survive in its environment, be able to obtain food, or avoid predators?)

**SWAMP Page 9: Pressure Event – Climate Change (10 points)**

**1.** Description of the pressure (What has changed? Was it the environment? Was it a predator? Was it the food source? Describe it in detail.)

2. Explanation of how the pressure affects the organism (How does the pressure change the organisms’ environment/food/predator? What does this do to the organism? Is it now starving? Is it now too hot/cold? How must the organism *adapt* to survive?)

**SEA Page 10: Organism Description (10 points)**

1. Description of the organism’s physical features (ex: type of eyes, shape of ears)

2. Explanation of how the organism is thriving in its environment (How do the physical features the organism has, make it survive in its environment, be able to obtain food, or avoid predators?)

**Part 2: Critical Friends Workshop I**

another group should be filling out the portion of packet below

**What is the job of a critical friend?** It is your job, as a team, to collaboratively discuss this group’s packet and give detailed observations and feedback to help them produce their best possible product.

Fill out the graphic organizer below

4

3

2

1

* (pg2)
* (pg3)
* (pg4)
* (pg5)

Write one question you have for the group per page

Write one thing you liked per page

* (pg2)
* (pg3)
* (pg4)
* (pg5)
* (pg2)
* (pg3)
* (pg4)
* (pg5)

Write one suggestion you have for the group per page

Please circle the overall score this team receives and write a one sentence justification in the box below

**Part 3: Critical Friends Workshop 2**

another group should be filling out the portion of packet below

**What is the job of a critical friend?** It is your job, as a team, to collaboratively discuss this group’s packet and give detailed observations and feedback to help them produce their best possible product.

Fill out the graphic organizer below

4

3

2

1

Write one question you have for the group per page

* (pg6)
* (pg7)
* (pg8)
* (pg9)
* (pg10)
* (pg6)
* (pg7)
* (pg8)
* (pg9)
* (pg10)

Write one thing you liked per page

Please circle the overall score this team receives and write a one sentence justification in the box below

Write one suggestion you have for the group per page

* (pg6)
* (pg7)
* (pg8)
* (pg9)
* (pg10)

**Evolution Book Check List**

**You MUST include the following evolution vocabulary words correctly (5 pts)**

- Evolution (evolved)

- Adapt (adaptation)

- Natural selection

- Extinct

- Camouflage

**Cover page: (5 points) due date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 \_\_ Creative Title (2 points)

 \_\_ Illustration (2 points)

 \_\_ Authors Names and Period (1 point)

**Page 1: Cladogram ( 0 points) due date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 Made in class

**Page 2: Organism Description (10 points) due date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 \_\_ Illustration (2 points)

 \_\_ Description of the organism’s physical features (4 points)

 ex: type of eyes, shape of ears

 \_\_ Explanation of how the organism is thriving in its environment (4 points)

 How do the physical features the organism has, make it survive in its environment, be able to obtain food, or avoid predators?

**Page 3: Pressure Event (10 points) due date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 \_\_ Illustration of the environmental/Food/Predator change (2 points)

 \_\_ Description of the pressure (4 points)

 What has changed? Was it the environment? Was it a predator? Was it the food source? Describe it in detail.

 \_\_ Explanation of how the pressure affects the organism (4 points)

 How does the pressure change the organisms’ environment/food/predator? What does this do to the organism? Is it now starving? Is it now too hot/cold? How must the organism *adapt* to survive?

**Page 4: Organism Description (10 points) due date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Page 5: Pressure Event (10 points) due date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Page 6: Organism Description (10 points) due date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Page 7: Pressure Event (10 points) due date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Page 8: Organism Description (10 points) due date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Page 9: Pressure Event – Climate Change (10 points) due date: \_\_\_\_\_\_\_\_\_\_\_\_**

**Page 10: Organism Description (10 points) due date:\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Total: \_\_\_\_\_\_/100**