

Ecology Honors Project—Organisms

Name: _____

Date: _____ Per: _____

During our ecology unit we will be learning about relationships between organisms. As a take-home project, you will choose one particular organism to focus on and investigate.

Prompt: You are the head animal keeper at a Zoo and you are going to be adding a new organism to the park. As the head keeper, it is important that you understand the ecological niche of each species in your care. Before your new organism arrives you will need to prep your staff with some basic information on the organism so that they will be prepared to care for it. Research your organism following the requirements below and create a poster that you can present to educate fellow zookeepers on the new organism.

Organism for Project: Chosen from Mrs. Lallemand's List—Sign Up 1st come 1st serve. ONLY ONE PERSON PER ORGANISM!

Project Format: Poster Presentation

Due Dates:

- Sources List: 9/11 (A)-9/12(B)
 - Due to Mrs. Lallemand for approval (practice/prep grade)
- Project Outline: 9/18 (A)-9/19 (B)
 - Should include an outline of content that you plan to show on your poster to fulfill requirements for project parts 2-4.
 - Submit for approval by Mrs. Lallemand (practice/prep grade)
- Poster & Presentation: 10/1(A)-10/2(B)

Total Point Value: 62 Summative

Requirements

Part 1: Sources

- 3 sources total
- At least 2 different source types (Books, Journals, Magazines, Videos, Webpages, etc.)
- Sources page attached to back of poster

Part 2: Basic Information

- At least 1 picture of the organism
- Common name
- Scientific name (in *italics*)
- Geographic Range
- Interesting Fact!

Part 3: Niche

- Specific Habitat
- Herbivore, carnivore, omnivore, or scavenger
- Food Sources (what does it eat?)
- Activity time---what time of day is this organism active?
- Give an example of interspecies competition related to this organism
- Describe an example of a predator/prey relationship involving your organism
- Describe at least one example of symbiosis involving your organism
 - Mutualism, commensalism, or parasitism

Part 4: Energy Flow

- Create a food web for the organism's ecosystem including your organism
- Represent each organisms on the food web by using its common name and a picture
- Use arrows to show the direction of energy flow
- Your web must include. . .
 - The ultimate energy source
 - At least 3 different producers
 - At least 3 primary consumers
 - At least 2 secondary consumers
 - At least 1 tertiary consumer
 - At least 1 decomposer

Part 5: Presentation and Final Poster Submission

Your poster should be. . .

- Large enough to accommodate all information with fonts that can be read from some distance
- Organized in a logical fashion
- Have information that is typed or VERY NEATLY handwritten
- Include all required Information

Your presentation should. . .

- Last 3-5 minutes. No more, no less.
- Be loud enough for students in the back to hear you
- Use scientific terminology appropriately
- Have information presented in a logical order
- Be rehearsed

Organism List:

Acacia Ants
Agile Wallaby
Aye-aye
Black Howler Monkey
Black Rhinoceros
Black Vulture
Black-Backed Jackal
Blue Crab
Brain Coral
Burmese Python
Common Vampire Bat

Coyote
Diamondback Terrapin
Dracula Goby
Echidna
European Praying mantis
Lamprey
Leafcutter Ant
Montezuma Oropendola
Nurse Shark
Ocelot
Olive Baboon

Osprey
Peacock Mantis Shrimp
Pygmy Hippopotamus
Red-Billed Oxpecker
Remora
Ritteri Anemone
Tapir
Three-Toed Sloth
True Percula Clownfish
White-Winged Dove
Wildebeest

***Turn this page in with your poster!!!!!!

Name: _____

Organism: _____

Period: _____

Sources: 5 points

- At least 3 sources (3)
- At least 2 types of sources (1)
- Sources Attached to Poster (1)

Basic Information: 10 points

- Appropriate picture of organism (2)
- Common name (2)
- Scientific Name (2)
- Interesting Fact (2)

Niche: 16 points

- Specific Habitat (2)
- Herbivore, carnivore, omnivore, or decomposer (2)
- Food Sources (2)
- Activity time---what time of day is this organism active? (2)
- Interspecies competition (2)
- Predator/Prey or Energy for Plant (2)
- Symbiosis Example (4)

Energy Flow: 12 points

- Common names for all 10 components (5)
- Pictures for all 10 components (5)
- Arrows Correct (2)

Poster/Presentation: 17 points

- Visuals (4)
- Order/Logic (3)
- Time (2)
- Volume (2)
- Appropriate scientific terms (3)
- Rehearsed (3)

Total: _____/62