

Name _____ Section _____ Date _____

LT: I can create a species that demonstrates my knowledge of evolution and natural selection.

Do Now: What are the 6 different categories in the animal kingdom?

Unit 5 Assessment: Create your own species

Due _____

Task

You will demonstrate that you understand the main concepts of this unit by creating a (fake) Wikipedia article about a new species of your design.

Required Elements in the (fake) Wikipedia article:

- Description of its biome
 - 4-5 sentences
- Adaptations to its biome
 - at least 3 adaptations given and explained.
 - see back for examples, but there are lots of others
- History of its evolution
 - Give one example of variation that once existed. Why did natural selection favor your species?
 - Can be written or drawn, as long as the variation is explained and it's clear why your species is best fit.
- Potential for domestication
 - Can this animal be domesticated? Why or why not? Does it have any use to humans?
 - 3-5 sentences
- Creative elements. You should choose at least 2 extra elements to include. Examples could be:
 - Where it falls in the food web (predators, prey, competitors)
 - Its life cycle
 - Examples from the back that you didn't use to show adaptations
- A name for your species
- An image of your new species
 - can be created on the computer or can be drawn.
 - Cannot just be a google image printout

Possible Adaptations

(Just a list of ideas to get you started)

How does it protect itself?

- Mimicry
- Escape
- Armor
- Playing Dead
- Camouflage
- _____

What does it eat?

- Carnivore (meat)
- Herbivore (Plants & grasses)
- Omnivore (both meat and plant)
- Scavenger
- _____

How does it communicate?

- Sounds
- Bioluminescence
- Colors
- Echolocation (like a bat)
- Touching/feeling
- Chemically (smell)
- _____

Where does it spend most of its time? (Behavioral patterns)

- Burrowing
- In trees
- Nomadic
- Nocturnal
- Cave dweller
- _____

How does it move?

- Swim
- Fly
- Walk/Run
- Climb
- Slither
- Jump
- _____

How does it deal with heat/cold?

- Migrates
- Hibernates
- Fur/hair
- Body shape (short/long limbs for example)
- _____

Brainstorming!

Below, you can write, sketch or whatever you want as a brainstorm.

3 questions that I will look up on the computer tonight or tomorrow are:

1.

2.

3.

Unit 5 Assessment: Create your own species

Rubric

Wikipedia article shows understanding of.....	3	2	1	0
Biomes & Adaptations to the biome	There are at least 4-5 sentences that accurately describe the characteristics of the biome. AND Adaptations make sense and show the biome's challenges & advantages	There are fewer than 4 sentences or the biome description is brief/general. OR Adaptations to the biome are only generally explained or may not be specifically suited to the biome.	There are only 1-2 sentences about the biome or the sentences do not give meaningful information about the biome AND Adaptations aren't chosen thoughtfully or are incorrect.	One or both sections are missing.
Evolution & Domestication	There is a clear understanding of the concepts of variation, natural selection, and domestication.	There is some understanding of the concepts of variation, natural selection, and domestication, but it may be too general or there may be a lack of understanding in one of the concepts.	Understanding of the concepts of variation, natural selection, and domestication is either extremely unclear or very incorrect.	These concepts are not mentioned.
Creative Elements	You include at least 2 extra elements that are thoughtfully done. AND The rest of the article is neat, clear, and visually appealing. It includes an image and a name.	You include 2 extra elements that may be only generally done, or only 1 extra element is included. OR The rest of the article is messy/missing an image	There is only 1 extra element present and it is quickly done. AND The rest of the article is extremely messy and lacking in effort.	There are no extra elements present. AND The article is so messy that it is difficult to follow/read.

Total: _____/9