

APES Rubric for Grading:

Building an Ecosystem; Initial Research (20 Points)

Monitoring Aquatic & Terrestrial Ecosystems & Biodiversity using Vivaria

HABITAT & RANGE: (7 points)

- 2 points What is the natural range of your species when found in the wild (include information on specific countries, climates, biomes, etc.)
- 1 point How much tank space do each of your species require?
- 2 points Discuss abiotic factors that are most important in your ecosystem and how you will address them in your tank.
- 2 points Include a drawing of what you expect your ecosystem to look like when set up.

LIFESTYLE & INTERACTIONS: (8 points)

- 2 points What is the size of each animal / plant when full grown. How will (would) you accommodate this growth in your ecosystem as the organisms mature?
- 2 points Behaviour: How aggressive is this species? How will your organisms interact with one another? Do your selected plant species have any toxins that may potentially harm your animal(s)?
- 2 points Biotic factors: discuss how your selection of plant species will affect your animal species. Can you select plant species that complement the needs of your animals? Can they provide food, shelter, humidity, etc...
- 2 points Reproduction & Mating: Are your species r or K selected? How old at first reproduction? How often do they mate, what is expected gestation & how many offspring usually occur per reproductive event? Are they known to breed in captivity?

WORKS CITED: (5 points)

- 3 points At least three sources of descriptive information found in project are listed. At least one source must be paper based (book, magazine, journal). At least one source must be from a reputable internet site.
- 2 point MLA (Writers, Inc.) format *OR* APA (American Psychological Association) format is observed with internal documentation or footnotes to reference course of information.