

Project Component Overview

Part A: Formal Proposal

The formal proposal has two parts. The first part will be the relevant information that must be presented to the council in hopes that they will approve your project. The second is a field guide that members of the council can use to identify key aspects of your habitat.

****NUMBER & LETTER ALL PARTS BELOW IN THE EXACT SAME WAY IN YOUR WORD DOCUMENT TO HELP YOU KEEP TRACK OF YOUR PROGRESS PROPERLY!!!**

1) a) Name of your species

General information about your chosen species

- b) List all the prey of your species (or its food sources if it has no prey)
- c) Predators of your species (if none must specify)
- d) General characteristics of your species
 - i) Color
 - ii) Size
 - iii) Weight
 - iv) Identifying/Unique marks or characteristics
 - v) Reproduction information (numbers, survival, etc)
 - vi) Migration (if it does any)
- e) Identification of organism's habitat (ecosystem it lives in).
- f) List of **at least** 10 other common species found in your species' ecosystem (**must include a variety of plants, insects, amphibians/reptiles/fish, birds, mammals and decomposers**). – Also list the some of the prey/predators of these 10 species.
 - This list that you create should be quite extensive when complete
- g) Description of your species niche (its job or purpose in the habitat it lives in).
- h) Create 3 separate food chains using the organisms researched in step "f" from Part 1.
- i) A Food Web using 10-15 species and the predators/prey researched from step "f" in Part 1.
- j) Create a table to identify which of the following groups each of your organisms from part "f" fits into: a) producers, b) consumers and c) decomposers (in table form) as well as their importance to your chosen endangered species.

| Producers | Consumers | Decomposers |
|--|--|--|
| <i>Include specific producers here and for several spaces below</i> | <i>Include specific consumers here and for several spaces below</i> | <i>Include specific decomposers here and for several spaces below</i> |
| <i>At bottom of table explain why this type of organism is important in your ecosystem</i> | <i>At bottom of table explain why this type of organism is important in your ecosystem</i> | <i>At bottom of table explain why this type of organism is important in your ecosystem</i> |

- k) a) The “official status” of your species on the threatened species list (most should be available on the WWF webpage - <https://www.worldwildlife.org/species/directory?page=2>).
- b) Explain what this status means.
- l) a) Research and explain the primary reason your species has this status.
- b) List any secondary reasons your species has this status.
- m) The positive impact of humans to help the status of your endangered animal.
 - i) Protective measures that currently exist or are planned
- n) Global Map showing the places your ecosystem is currently found around the world and the location you would like to construct your habitat.
- o) General information about the type of ecosystem (ex. Climate, altitude, latitude, longitude, ...)

3) Field Guide for your endangered species

****Remember, in order to properly complete this task each group outlined below (1-5) must be represented in your visual model**

- a) Identification – include information on one organism from your visual model that is in each of the following different classifications. (Remember your model should have more organisms than what is listed in the field guide.)
 - (1) plants
 - (2) insects / invertebrates
 - (3) amphibians / fish / reptiles
 - (4) birds
 - (5) mammals
- b) For each organism chosen for your field guide the following needs to be included for proper identification
 - i) A photo
 - ii) The common and scientific name
 - iii) The physical traits (and any other traits such as behavioral if applicable)
 - iv) The organism’s importance in the ecosystem and its connection to other organisms