**“Hoot” Movie Questions**

1. Is there an environmental issue in your area about which you feel strongly? Describe the issue:
2. What are some ways you could deal with this issue?
3. Compile a list of natural and man-made threats to burrowing owls.
4. What adaptive behaviors of burrowing owls did Mullet Fingers and Roy make use of to ensure that the owls were visible to people? List 3 examples.
5. Roy’s mother advises him, “You’re going to be faced with situations where the line isn’t clear between what’s right and what’s wrong. Your heart will tell you to do one thing, and your brain will tell you to do something different. In the end, all that’s left is to look at both sides and go with your best judgment.” How does this advice relate to your actions in decision-making?
6. What are the effects of development on local wildlife including plants and animals?

**Field Guide Site Inventory Phase 1**

**Directions: Complete the inventory with the most specific and clear description of the environment and use the appropriate technology to fill in the gaps.**

* Choose a place. Make use of the campus to focus your investigation.
* Vary the scale. Look for small plants, fungi, or animals (ants, beetles, spiders, butterflies, snails, slugs) as well as larger ones (birds, squirrels, frogs, toads).
* Zoom in. Peek under logs and rocks, beneath leaves, on tree bark, and in puddles or other wet areas.
* Heed the signs. Tracks, holes, nests, droppings, chewed leaves or twigs, insect and birdcalls, and other signs are all clues about the presence of wildlife.
* Determine the problem. In your 2 transects, you will be finding and counting the number of individuals of different species. The species with the smallest number in both transects will be the species in need of conservation.
* *Do not disturb. Be a good steward. Move slowly and quietly. Treat all organisms with respect. Leave a habitat in better shape than the way it was when you found it.*

**Field Guide Site Inventory Phase 1 (ctd.)**

**Date: Time:**

**Campus location:**

**Weather:**

**Wildlife Records**

|  |  |  |  |
| --- | --- | --- | --- |
| **Transect Number** | **Campus Location** | **Transect Area Statistics** | **Transect Population Census by Species** |
| **1** |  | Perimeter (metric units):  Area (metric units):  Species:  Species relationships:  Species by trophic level:  Abiotic factors: | Species 1:  Species 2:  Species 3:  Species 4: |
| **2** |  | Perimeter (metric units):  Area (metric units):  Species:  Species relationships:  Species by trophic level:  Abiotic factors: | Species 1:  Species 2:  Species 3:  Species 4: |

**Field Guide Site Evaluation & Conservation Plan Phase 2**

**Directions: Using the inventory and movie questions, you will complete 5 paragraphs to identify resources present, identify the problem in transects, and determine methods for conservation. Complete the plan below to help your essay.**

* Identify Resources
  + Determine a monetary budget
  + What materials can be used from this transect to help you
  + What additional materials will you need
  + How much will the materials cost
  + How much labor is involved
  + How many assistants are needed
  + Will you need to do research first
  + Who can you refer to for guidance in this process
* Identify the Problem
  + What species had the fewest organisms in your transects
  + What number did you find in each
  + As you execute your conservation plan, what number of this species do you hope to reach in these transects
  + Why is it a problem for this species to diminish
  + What will suffer or be affected by the decrease of this species
  + What will be affected by the increase of this species when you execute your plan
* Conservation Methods
  + How will you use the materials you listed to best fit your budget
  + How will you raise the money for your budget
  + What are you going to do to solve the problem