

ENVIRONMENTAL SCIENCE MERIT BADGE



The following requirements would be much easier to finish before coming to camp. Please bring the completed sheets with you and present them to your counselor as proof that you have completed the requirements.

Requirement 3E. Endangered Species. For this requirement you have been given two options. Select and complete ONE option.

IF YOU SELECTED OPTION 1: Do research on one endangered species found in your state.

What endangered species did you select? _____

What is its natural habitat? _____

What is being done to preserve it? _____

How many of these organisms are left in the wild? _____

On a separate piece of paper, prepare a 100-word report about the organism, including a drawing or photo. Attach your report and picture to this worksheet.

IF YOU SELECTED OPTION 2: Do research on one species that was endangered or threatened, but which has now recovered.

What organism did you select? _____

How did this organism recover from being endangered? _____

What is the new status of this organism? _____

_____ On a separate piece of paper, prepare a 100-word report about the organism, including a drawing or photo. Attach your report and picture to this worksheet.

Requirement 4. Select TWO outdoor areas that are very different for each other to study. Once you have selected the two areas that you will study you have two options to choose from for this requirement. Select and complete one of them.

*If you selected **Option A:***

Mark off two study plots of four square yards, and count the number of species found there. Estimate how much space is occupied by each plant species and the type and number of non-plant species you find.

Plot 1: Number of species found: _____

List each species below and list your estimation of how much space is occupied by each species found in the plots:

Species: _____ Space Used: _____ Species: _____ Space Used: _____

Species: _____ Space Used: _____ Species: _____ Space Used: _____

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Species: _____ Space Used: _____ Species: _____ Space Used: _____
Species: _____ Space Used: _____ Species: _____ Space Used: _____
Species: _____ Space Used: _____ Species: _____ Space Used: _____

Plot 2. Number of species found: _____

List each species below and list your estimation of how much space is occupied by each species found in the plots:

Species: _____	Space Used: _____	Species: _____	Space Used: _____
Species: _____	Space Used: _____	Species: _____	Space Used: _____
Species: _____	Space Used: _____	Species: _____	Space Used: _____
Species: _____	Space Used: _____	Species: _____	Space Used: _____
Species: _____	Space Used: _____	Species: _____	Space Used: _____

Tell the type and number of nonplant species you find on your plots:

Plot 1:

Type: _____	# _____	Type: _____	# _____
Type: _____	# _____	Type: _____	# _____
Type: _____	# _____	Type: _____	# _____
Type: _____	# _____	Type: _____	# _____
Type: _____	# _____	Type: _____	# _____
Type: _____	# _____	Type: _____	# _____

Plot 2:

Type: _____	# _____	Type: _____	# _____
Type: _____	# _____	Type: _____	# _____
Type: _____	# _____	Type: _____	# _____

Use this space to write a report that adequately discusses the biodiversity and population density of these 2 study areas: _____

Scout name: _____ Unit # _____ Date: _____