ENVIRONMENTAL SCIENCE
Merit Badge Requirements

1) Make a timeline of the history of environmental science in America. Identify the contribution made by the Boy Scouts of America to environmental science. Include dates, names of people or organizations, and important events.

2) Define the following terms: population, community, ecosystem, biosphere, symbiosis, niche, habitat, conservation, threatened species, endangered species, extinction, pollution prevention, brownfield, ozone, watershed, airshed, nonpoint source, hybrid vehicle, fuel cell.

3) Do ONE activity in EACH of the following categories (using the activities in this merit badge pamphlet as the bases for planning and carrying out your projects):

   A) Ecology
      1) Conduct and experiment to find out how living things respond to changes in their environments. Discuss your observations with your counselor.
      2) Conduct an experiment illustrating the greenhouse effect. Keep a journal of your data and observations. Discuss your conclusions with your counselor.
      3) Discuss what is an ecosystem. Tell how it is maintained in nature and how it survives.

   B) Air Pollution
      1) Perform an experiment to test for particulates that contribute to air pollution. Discuss your findings with your counselor.
      2) Record the trips taken, mileage, and fuel consumption of a family car for seven days, and calculate how many miles per gallon the car gets. Determine whether any tips could have been combined (“chained”) rather than taken out and back. Using the idea of trip chaining, determine how many miles and gallons of gas could have been saved in those seven days.
      3) Explain what is acid rain. In your explanation, tell how it affects plants and the environment and the steps society can take to help reduce its effects.

   C) Water Pollution
      1) Conduct an experiment to show how living things react to thermal pollution. Discuss your observations with your counselor.
      2) Conduct an experiment to identify the methods that could be used to mediate (reduce) the effects of an oil spill on waterfowl. Discuss your results with your counselor.
      3) Describe the impact of a waterborne pollutant on an aquatic community. Write a 100-word report on how that pollutant affected aquatic life, what the effect was, and whether the effect is linked to biomagnification.

   D) Land Pollution
      1) Conduct an experiment to illustrate soil erosion by water. Take photographs or make a drawing of the soil before and after your experiment, and make a poster showing your results. Present your poster to your patrol or troop.
      2) Perform an experiment to determine the effect of an oil spill on land. Discuss your conclusions with your counselor.
      3) Photograph an area affected by erosion. Share your photographs with your counselor and discuss why the area has eroded and what might be done to help alleviate the erosion.

**Requirements continued on next page**
E) **Endangered Species**
   1) Do research on one endangered species found in your state. Find out what its natural habitat is, why it is endangered, what is being done to preserve it, and how many individual organisms are left in the wild. Prepare a 100-word report about the organism, including a drawing. Present your report to your patrol or troop.
   2) Do research on one species that was endangered or threatened but which has now recovered. Find out how the organism recovered, and what its new status is. Write a 100-word report on the species and discuss it with your counselor.
   3) With your parent’s and counselor’s approval, work with a natural resource professional to identify two projects that have been approved to improve the habitat for a threatened or endangered species in your area. Visit the site of one of these projects and report on what you saw.

F) **Pollution Prevention, Resource Recovery, and Conservation**
   1) Look around your home and determine 10 ways your family can help reduce pollution. Practice at least two of these methods for seven days and discuss with your counselor what you have learned.
   2) Determine 10 ways to conserve resources or use resources more efficiently in your home, at school, or at camp. Practice at least two of these methods for seven days and discuss with your counselor what you have learned.
   3) Perform an experiment on packaging materials to find out which ones are biodegradable. Discuss your conclusions with your counselor.

4) Choose two outdoor study areas that are very different from one another (e.g., hilltop vs. bottom of a hill; field vs. forest; swamp vs. dry land). For BOTH study areas, do ONE of the following:
   A) Mark off a plot of 4 square yards in each study area, and count the number of species found there. Estimate how much space is occupied by each plant species and the type and number of nonplant species you find. Write a report that adequately discusses the biodiversity and population density of these study areas. Discuss your report with your counselor.
   B) Make at least three visits to each of the two study areas (for a total of six visits), staying for at least 20 minutes each time, to observe the living and nonliving parts of the ecosystem. Space each visit far enough apart that there are readily apparent differences in the observations. Keep a journal that includes the differences you observe. Then, write a short report that adequately addresses your observations, including how the differences of the study areas might relate to the differences noted, and discuss this with your counselor.

5) Using the construction project provided or a plan you create on your own, identify the items that would need to be included in an environmental impact statement for the project planned.

6) Find out about three career opportunities in environmental science. Pick one and find out the education, training, and experience required for this profession. Discuss this with your counselor, and explain why this profession might interest you.
Requirement 1

Use this area to make a timeline of the history of environmental science in America.

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Identify the contribution made by the Boy Scouts of America to environmental science. Include dates, names of people or organizations, and important events:

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Requirement 2

Describe the following terms:

Population: _________________________________________________________________________________________________

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Community: ________________________________________________________________________________________________

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Ecosystem: _________________________________________________________________________________________________

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Biosphere: _________________________________________________________________________________________________

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Symbiosis: _________________________________________________________________________________________________

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Niche: _____________________________________________________________________________________________________

___________________________________________________________________________________________________________

Habitat: __________________________________________________________________________________________________

___________________________________________________________________________________________________________

Conservation: _______________________________________________________________________________________________

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Threatened Species: __________________________________________________________________________________________

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Endangered Species: _________________________________________________________________________________________

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Extinction: _________________________________________________________________________________________________

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Pollution Prevention: ________________________________________________________________

Brownfield: ________________________________________________________________________________

Ozone: _______________________________________________________________________________________

Watershed: ___________________________________________________________________________________

Airshed: ______________________________________________________________________________________

Nonpoint Source: ______________________________________________________________________________

Hybrid Vehicle: ________________________________________________________________________________

Fuel Cell: _____________________________________________________________________________________

**Requirement 3**

You have been given six categories. For each category there are three options. Select and complete ONE option form EACH category.

Use the activities in the Environmental Science merit badge pamphlet as the bases for planning and carrying out your projects. Briefly describe below each of the activities you did. Keep all your paperwork, notes and activity materials that you used for your experiments and studies and show them to your counselor.

**A: Ecology**

If you selected **Option A1**: Conduct and experiment to find out how living things respond to changes in their environments. After conducting your experiment use this area to briefly describe your experiment and the results:

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If you selected **Option A2**: Conduct and experiment illustrating the greenhouse effect. After conducting your experiment use this area to briefly describe your experiment and the results.

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If you selected **Option A3**:  

What is an ecosystem?  
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How is an ecosystem maintained in nature and how does it survive?  
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_________________________________________________________________________  
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**B: Air Pollution**  

If you selected **Option B1**:  

Perform an experiment to test for particulates that contribute to air pollution. After conducting your experiment use this area to briefly describe your experiment and the results:  
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If you selected **Option B2**:  

*At the back of this worksheet there is a worksheet you may use (but don’t have to) to help you gather information for this requirement.*  

Record the trips taken, mileage, and fuel consumption of a family car for seven days, and calculate how many miles per gallon the car gets. Using the idea of trip chaining, determine how many miles and gallons of gas could have been saved in those seven days.  

How many miles per gallon does your car get? ________  

Look at your log of trips taken.  
Were there any trips that could have been combined (“chained”) rather than taken out and back?  
_________________________________________________________________________  

Using the idea of trip chaining, determine how many miles and gallons of gas could have been saved in those seven days.  

Miles that could have been saved: ________  
Gallons of gas that could have been saved: ________  

If you selected **Option B3**:  

What is acid rain?  
_________________________________________________________________________  
_________________________________________________________________________  

How does it affect plants and the environment?  
_________________________________________________________________________  
_________________________________________________________________________  

What steps can society take to help reduce the effects of acid rain?  
_________________________________________________________________________  
_________________________________________________________________________  

Requirements Last Revised: 1/1/2006
C: Water Pollution

If you selected Option C1:
Conduct an experiment to show how living things react to thermal pollution. After conducting your experiment use this area to briefly describe the experiment and the results. Discuss them with your counselor.

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If you selected Option C2:
Conduct an experiment to identify the methods that could be used to mediate (reduce) the effects of an oil spill on waterfowl. After conducting your experiment use this area to briefly describe your experiment and the results. Discuss them with your counselor.

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If you selected Option C3:
Describe the impact of a waterborne pollutant on an aquatic community:
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Write a 100-word report on how that pollutant affected aquatic life, what the effect was, and whether the effect is linked to biomagnification:
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**D: Land Pollution**

If you selected *Option D1*:

Conduct an experiment to illustrate soil erosion by water. After you have conducted the experiment use this area to briefly describe your experiment and the results. ________________________________________________________________________________
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Take photographs or make a drawing of the soil before and after your experiment, and make a poster showing your results. Give a brief summary of the before and after photos or drawings: ________________________________________________________________________________
______________________________________________________________________________
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__ Show your poster to your counselor and your patrol or troop.

If you selected *Option D2*:

Perform an experiment determining the effect of an oil spill on land. Give a brief summary of the experiment and the results. Share your conclusions with your counselor. ________________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________
______________________________________________________________________________

If you selected *Option D3*:

Photograph an area affected by erosion. Share your photographs with your counselor.

Tell why the area has eroded: ________________________________________________________________________________
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What might be done to help alleviate the erosion? ________________________________________________________________________________
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E: Endangered Species

If you selected **Option E1:**

Do research on one endangered species found in your state.

What endangered species did you select? ____________________________________________________________

What is its natural habitat? _______________________________________________________________________

Why is it endangered? __________________________________________________________________________

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.

Present your report to your patrol or troop.

If you selected **Option E2:**

Do research on one species that was endangered or threatened but which has now recovered.

What organism did you select for this option that is no longer an endangered species? __________________________

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.

Present your report to your patrol or troop.

If you selected **Option E3:**

With your parent’s and counselor’s approval, work with a natural resource professional to identify two projects that have been approved to improve the habitat for a threatened or endangered species in your area. What 2 projects did you identify?

Project 1: ____________________________________________     Project 2: ____________________________________________

Visit the site of one of these projects and report on what you saw: _________________________________________

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Requirements Last Revised: 1/1/2006
F: Pollution Prevention, Resource Recovery, and Conservation

If you selected **Option F1:**

Look around your home and determine 10 ways your family can help reduce pollution:

1) ____________________________________________________________
2) ____________________________________________________________
3) ____________________________________________________________
4) ____________________________________________________________
5) ____________________________________________________________
6) ____________________________________________________________
7) ____________________________________________________________
8) ____________________________________________________________
9) ____________________________________________________________
10) ____________________________________________________________

Practice two of these methods for seven days.

Tell what you have learned: ____________________________________________
____________________________________________________________________
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If you selected **Option F2:**

Determine 10 ways to conserve resources or use resources more efficiently in your home, at school, or at camp.

1) ____________________________________________________________
2) ____________________________________________________________
3) ____________________________________________________________
4) ____________________________________________________________
5) ____________________________________________________________
6) ____________________________________________________________
7) ____________________________________________________________
8) ____________________________________________________________
9) ____________________________________________________________
10) ____________________________________________________________
Practice two of these methods for seven days.

Tell what you have learned:

__________________________________________________________________________________
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If you selected **Option F3**:

Perform an experiment on packaging material to find out which ones are biodegradable. Give a brief summary of your experiment and the results. Discuss this with your counselor. __________________________________________________________________
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**Requirement 4**

For this requirement you are required to select TWO outdoor areas, that are very different from 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.

**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:

<table>
<thead>
<tr>
<th>Species</th>
<th>Space Used: _______</th>
<th>Species</th>
<th>Space Used: _______</th>
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</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

Requirements Last Revised: 1/1/2006
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: __________
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: _______________________________     #_____       
Type: _______________________________     #_____       Type: _______________________________     #_____       
Type: _______________________________     #_____       Type: _______________________________     #_____       
Type: _______________________________     #_____       Type: _______________________________     #_____       
Type: _______________________________     #_____       Type: _______________________________     #_____       


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

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Discuss your report with your counselor.

Requirements Last Revised: 1/1/2006
If you selected **Option B:**

Make at least three visits to each of the study areas, staying for at least 20 minutes each time, to observe the living and nonliving parts of the ecosystem. Space each visit far enough apart that there are readily apparent differences in the observations. Use this area to take notes during each of your three visits. In your notes you will want to include such items as the time of day, weather conditions, temperature, any activity you see, and any differences to the study area since your last visit. Compile your notes into a journal.

**Plot 1**

1\textsuperscript{st} Visit:

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2\textsuperscript{nd} Visit:

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3\textsuperscript{rd} Visit:

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Plot 2

1st Visit: ____________________________________________________________
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2nd Visit: ____________________________________________________________
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3rd Visit: ____________________________________________________________
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____________________________________________________________________
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Write a short report that adequately addresses your observations, including how the differences of the study areas might relate to the differences noted. Once you have completed your report, add it to the back of this worksheet. Discuss your report with your counselor.
**Requirement 5**

Using the construction project provided or a plan you create on your own, identify the items that would need to be included in an environmental impact statement for the project planned.

Describe the construction project:

___________________________________________________________________________________________________________

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Use this area to prepare identify the items that would need to be included in an environmental impact statement for the project: ____

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**Requirement 6**

List three possible careers in the field of environmental science. Give a brief description of each.

Career: _________________________          Description: ____________________________________________________________

Career: _________________________          Description: ____________________________________________________________

Career: _________________________          Description: ____________________________________________________________

Select one of the careers you listed above and identify the education, training, and experience that you would need to pursue this career: _____________________________________________________________________________________________________

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Discuss this with your counselor and explain why this profession might interest you: ______________________________________

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**Worksheet for Requirement 3B2**

Use this area to help you gather data needed for requirement 3 B2. Here is an example of how you could use this area:

<table>
<thead>
<tr>
<th>Date</th>
<th>Odometer</th>
<th>Miles</th>
<th>Gallons</th>
<th>MPG</th>
<th>$/Fill</th>
<th>$/Gal</th>
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</thead>
<tbody>
<tr>
<td>1/1/06</td>
<td>158102</td>
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<td>13.243</td>
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<td>$39.58</td>
<td>$2.99</td>
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<td>21.471</td>
<td>14.35</td>
<td>$66.12</td>
<td>$3.08</td>
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<td>1/1/06</td>
<td>158678</td>
<td>268</td>
<td>19.973</td>
<td>13.42</td>
<td>$65.89</td>
<td>$3.30</td>
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From this data we find the following:
- Average MPG = 13.89
- Minimum MPG = 13.42
- Maximum MPG = 14.35
- Average Cost Per Mile = $0.22
- Total Fuel Cost = $171.59
- Average Cost Per Gallon = $3.12
- Total Gallons = $54.69
- Total Miles Driven = 576.3

Gather your data for the 7 days required. After you have gathered the data, have your parents or leader help you figure out the totals.

<table>
<thead>
<tr>
<th>Date</th>
<th>Odometer</th>
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</table>

Total Miles Driven = __________  Total Gallons = __________  Total Cost of Fuel = $__________

Average MPG = __________