

Soil and Water Conservation Merit Badge Prework Huntley Meadows Park

The Soil and Water Conservation merit badge is a 4 hour session. Scouts should bring a snack and plenty of water. Please no red liquids. Scouts will be spending the some of the session outside. Please have them wear sunscreen and insect repellent.

What to bring:

- Blue card, pen and pencil.
- Appropriate clothing including closed toe shoes.
- Snack and water.
- Prework.

Prework

5a. Make a drawing to show the hydrologic cycle.

6c. Tell what is meant by “primary water treatment,” “secondary waste treatment,” and biochemical oxygen demand.”

6d. Make a drawing showing the principles of complete waste treatment.

7. Do TWO of the following: (We will do f. a soil and water conservation project in class; you need to do ONE other)

a. Make a trip to two of the following places. Write a report of more than 500 words about the soil and water and energy conservation practices you saw.

1. An agricultural experiment.
2. A managed forest or a woodlot, range, or pasture.
3. A wildlife refuge or a fish or game management area.
4. A conservation-managed farm or ranch.
5. A managed watershed.
6. A waste-treatment plant.
7. A public drinking water treatment plant.
8. An industry water-use installation.
9. A desalinization plant.

b. Plant 100 trees, bushes and/or vines for a good purpose.

c. Seed an area of at least one-fifth acre for some worthwhile conservation purposes, using suitable grasses or legumes alone or in a mixture.

- d. Study a soil survey report. Describe the things in it. Using tracing paper and pen, trace over any of the soil maps, and outline an area with three or more different kinds of soil. List each kind of soil by full name and map symbol.
- e. Make a list of places in your neighborhood, camps, school ground, or park having erosion, sedimentation, or pollution problems. Describe how these could be corrected through individual or group action.
- f. Carry out any other soil and water conservation project approved by your merit badge counselor. (This will be done in class)

Resources:

<http://www.dewater.com/education/conservation/default.cfm>

<http://www.dewater.com/education/default.cfm>

<http://www.dewater.com/wastewater/process.cfm>

For help or questions, please contact Kylie Starck at 703-768-2525 or at Kylie.Starck@fairfaxcounty.gov