



Please contact the Learning Center Coordinator and let us know you are interested in the Scout Ranger Program at Flight 93 National Memorial. We will answer questions and provide further information to help you work toward the patch or certificate.

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Plant Science



Requirements:

1. Make a drawing and identify five or more parts of a flowering plant. Tell what each part does.
2. Explain photosynthesis and tell why this process is important. Tell at least five ways that humans depend on plants.
3. Explain how honeybees and other pollinating insects are important to plant life.
4. Explain how water, light, air, temperature, and pests affect plants. Describe the nature and function of soil and explain its importance. Tell about the texture structure, and composition of fertile soil. Tell how soil may be improved.
6. List by common name at least 10 native plants and 10 cultivated plants that grow near your home. List five invasive, nonnative plants in your area and tell how they may be harmful. Tell how the spread of invasive plants may be avoided or controlled in ways that are not damaging to humans, wildlife, and the environment.
8. **Option 3: Field Botany**
 - a. Visit a park, forest, Scout camp, or other natural area near your home. While you are there:
 - b. Select a study site that is at least 100 by 100 feet. Make a list of the plants in the study site by groups of plants: canopy trees, small trees, shrubs, herbaceous wildflowers and grasses, vines, ferns, mosses, algae, fungi, lichens. Find out which of these are native plants and which are exotic (or nonnative).

- c. Tell how an identification key works and use a simple key to identify 10 kinds of plants (in addition to those in general requirement 5 above). Tell the differences between common and scientific names and tell why scientific names are important.
- f. Choose ONE of the following alternatives and complete EACH of its requirements:
 - i. Tree Inventory
 - a. Identify the trees of your neighborhood, a park, a section of your town, or a Scout Camp.
 - b. Collect, press, and label leaves, flowers, or fruits to document your inventory.
 - c. List the types of trees by scientific name and give common names. Note the number and size (diameter of 4 feet above ground) of trees observed and determine the largest of each species in your study area.
 - d. Write and distribute materials that will help others learn about trees.

