



Royal Rangers

Merit Requirements: **Green-Bordered Merit**

FORESTRY

1. Write a 300-word report describing the contributions forests make to
 - a. Our economy in the form of products
 - b. Soil protection and increased fertility
 - c. Clean water
 - d. Clean air
 - e. Wildlife
 - f. Recreation
2. Diagram and label the parts of a tree.
3. Explain the steps involved in planting and caring for a tree.
4. Explain how to tell the age of a tree. Discuss the possible causes for variations in growth when examining the crosscut section of a stump or log.
5. Explain how trees prevent soil erosion.
6. List ten animals that depend on the forest for their food and shelter. Describe where one of these animals lives and what it eats.
7. Study ten trees or shrubs native to your state (one should be your state tree). Submit a notebook that includes the following for each species:
 - a. A photo or drawing of the tree or shrub
 - b. A sketch of a leaf or branch of the tree or shrub
 - c. A sketch of its seed or an explanation of how the plant reproduces
 - d. A list of the uses of the tree or shrub by mankind or wildlife
8. Do the following:
 - a. Describe the damages to forests that result from
 - i) Wildfire
 - ii) Insects
 - iii) Tree disease
 - iv) Acid rain
 - v) Improper harvest
 - b. Tell what can be done to reduce these damages.