

Forestry

Merit Badge Workbook

This workbook can help you but you still need to read the merit badge pamphlet.

The work space provided for each requirement should be used by the Scout to make notes for discussing the item with his counselor, not for providing the full and complete answers. Each Scout must do each requirement.

No one may add or subtract from the official requirements found in **Boy Scout Requirements** (Pub. 33216 – SKU 34765).

The requirements were last issued or revised in 2006 • This workbook was updated in March 2012. Scout's Name:______ Unit: _____ Counselor's Name: Counselor's Phone No.: http://www.USScouts.Org • http://www.MeritBadge.Org Please submit errors, omissions, comments or suggestions about improving this workbook to: Workbooks@USScouts.org Prepare a field notebook, make a collection, and identify 15 species of trees, wild shrubs, or vines in a local forested area. Write a description in which you identify and discuss the following: The characteristics of leaf, twig, cone, or fruiting bodies b. The habitat in which these trees, shrubs or vines are found. The important ways each tree, shrub, or vine is used by humans or wildlife and whether the species is native or was introduced to the area. If it is not native, explain whether it is considered invasive or potentially invasive. (See the Sample Notebook Page at the end of this workbook) 2. Do ONE of the following: a. Collect and identify wood samples of 10 species of trees. List several ways the wood of each species can be used. (See the Sample Notebook Page at the end of this workbook) b. Find and examine three stumps, logs, or core samples that show variations in the growth rate of their ring patterns. In the field notebook you prepared for requirement 1, describe the location or origin of each example (including elevation, aspect, slope, and the position on the slope), and discuss possible reasons for the variations in growth rate. Photograph or sketch each example. c. Find and examine two types of animal, insect, or damage on trees. In the field notebook you prepared for requirement 1, identify the damage, explain how the damage was caused, and describe the effects of the damage on the trees. Photograph or sketch each example. 3. Do the following: Describe contributions forests make to: Our economy in the form of products.
______ Our social well-being, including recreation ______ 3. Soil protection and increased fertility. 4. Clean water.

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		Clean air. (carbon cycling, sequestration)
		6. Wildlife habitat
		7. Fisheries habitat
		Threatened and endangered species of plants and animals
	b.	Tell which watershed or other source your community relies on for its water supply
4.	Describ	be what forest management means, including the following:
	—— а.	Multiple-use management
	b.	Sustainable forest management
	C.	Even-aged and uneven-aged management and silvicultural systems associated with each type
d.		Intermediate cuttings.
	e.	The role of prescribed burning and related forest management practices
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5.	_ `	our parent's and counselor's approval, do ONE of the following:
	<u> </u>	Visit a managed public or private forest area with its manager or a forester familiar with it. Write a brief report describing the type of forest, the management objectives, and the forestry techniques used to achieve the objectives.
	□ b.	Take a trip to a logging operation or wood-using industrial plant and write a brief report describing:
		 The species and size of trees being harvested or used and the location of the harvest area or manufacturer.
		2. The origin of the forest or stands of trees being utilized (e.g., planted or natural)
		3. The forest's successional stage. What is its future?
		4. Where the trees are coming from (land ownership) or where they are going (type of mill or processing plant)
		5. The products that are made from the trees

6. How the products are made and used.

		7. How waste materials from the logging operation or manufacturing plant are disposed of or utilized.
	C.	Take part in a forest-fire prevention campaign in cooperation with your local fire warden, state wildfire agency, forester, or counselor. Write a brief report describing the campaign, how it will help prevent wildfires, and your part in it.
6.	Do the	following:
	a.	Describe the consequences to forests that result from FIVE of the following elements: wildfire, absence of fire, insects, tree diseases, air pollution, overgrazing, deer or other wildlife overpopulation, improper harvest, and urbanization.
		Wildfire:
		Absence of fire:
		Insects:
		Tree diseases:
		Air pollution:
		Overgrazing:
		Deer or other wildlife overpopulation:
		Improper harvest:
		- Urbanization:
		Urbanization:
	b.	Explain what can be done to reduce the consequences you discussed in 6a

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(c. De it.	scribe what you should do if you discover a forest fire and how a professional firefighting crew might control
	W	nat to do:
	_	
	_	
	Но	w a professional firefighting crew might control it.
	_	
	Na	me your state or local wildfire control agency
		more local foresters and write a brief report about the person (or persons). Or, write about a forester's including the education, qualifications, career opportunities, and duties related to forestry.
		Requirement resources can be found here:

http://www.meritbadge.org/wiki/index.php/Forestry#Requirement resources

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Req. 1A-1D: Field Notebook Collection Identifying 15 Species of Trees

Attach sample here	Attach sample here
Species:	Species:
Habitat:	Habitat:
Characteristics:	Characteristics:
Uses:	Uses:
Native/Invasive?	Native/Invasive?
Attach sample here	Attach sample here
Attach sample here Species:	Attach sample here Species:
Species:	Species:
Species:	Species:

Forestry Scout's Name: _____

Attach sample here	Attach sample here
Species:	Species:
Habitat:	Habitat:
Characteristics:	Characteristics:
Uses:	Uses:
Native/Invasive?	Native/Invasive?
Attach sample here	Attach sample here
Species:	Species:
Species:	Species:
Habitat:	Habitat:

Forestry Scout's Name: Attach sample here Attach sample here Species: Species: Habitat: Habitat: Characteristics: Characteristics: Native/Invasive? _____ Native/Invasive?____ Req. 2A: Field Notebook Collection Identifying 10 Wood Samples Attach sample here Attach sample here

Species:

Species:

Uses:

Species: ______ Species: _____ Uses: _____ Uses: _____ Attach sample here ______ Attach sample here _______ Attach sample here _______ Attach sample here _______ Attach sample here

Species: ______

Species: ______

Species: ______ Species: _____ Uses: _____ Uses: _____ Attach sample here Attach sample here Attach sample here

Species: _____

Uses:

Species:

Uses: _____

Attachment - (NOTE: It is not necessary to print this page.)

Important excerpts from the 'Guide To Advancement', No. 33088:

Effective January 1, 2012, the 'Guide to Advancement' (which replaced the publication 'Advancement Committee Policies and Procedures') is now the official Boy Scouts of America source on advancement policies and procedures.

- [Inside front cover, and 5.0.1.4] Unauthorized Changes to Advancement Program

 No council, committee, district, unit, or individual has the authority to add to, or subtract from, advancement requirements.

 (There are limited exceptions relating only to youth members with disabilities. For details see section 10, "Advancement for Members With Special Needs".)
- [Inside front cover, and 7.0.1.1] The 'Guide to Safe Scouting' Applies
 Policies and procedures outlined in the 'Guide to Safe Scouting', No. 34416, apply to all BSA activities, including those related to advancement and Eagle Scout service projects. [Note: Always reference the online version, which is updated quarterly.]

• [7.0.3.1] — The Buddy System and Certifying Completion

Youth members must not meet one-on-one with adults. Sessions with counselors must take place where others can view the interaction, or the Scout must have a buddy: a friend, parent, guardian, brother, sister, or other relative —or better yet, another Scout working on the same badge— along with him attending the session. When the Scout meets with the counselor, he should bring any required projects. If these cannot be transported, he should present evidence, such as photographs or adult certification. His unit leader, for example, might state that a satisfactory bridge or tower has been built for the Pioneering merit badge, or that meals were prepared for Cooking. If there are questions that requirements were met, a counselor may confirm with adults involved. Once satisfied, the counselor signs the blue card using the date upon which the Scout completed the requirements, or in the case of partials, initials the individual requirements passed.

• [7.0.3.2] — Group Instruction

It is acceptable—and sometimes desirable—for merit badges to be taught in group settings. This often occurs at camp and merit badge midways or similar events. Interactive group discussions can support learning. The method can also be attractive to "guest experts" assisting registered and approved counselors. Slide shows, skits, demonstrations, panels, and various other techniques can also be employed, but as any teacher can attest, not everyone will learn all the material.

There must be attention to each individual's projects and his fulfillment of *all* requirements. We must know that every Scout — actually and *personally*— completed them. If, for example, a requirement uses words like "show," "demonstrate," or "discuss," then every Scout must do that. It is unacceptable to award badges on the basis of sitting in classrooms *watching* demonstrations, or remaining silent during discussions. Because of the importance of individual attention in the merit badge plan, group instruction should be limited to those scenarios where the benefits are compelling.

• [7.0.3.3] — Partial Completions

Scouts need not pass all requirements with one counselor. The Application for Merit Badge has a place to record what has been finished — a "partial." In the center section on the reverse of the blue card, the counselor initials for each requirement passed. In the case of a partial completion, he or she does not retain the counselor's portion of the card. A subsequent counselor may choose not to accept partial work, but this should be rare. A Scout, if he believes he is being treated unfairly, may work with his Scoutmaster to find another counselor. An example for the use of a signed partial would be to take it to camp as proof of prerequisites. Partials have no expiration except the 18th birthday.