



Gardening Merit Badge Workbook

SCOUTMASTER BUCKY

Scouts participating in a Scoutmaster Bucky merit badge opportunity, whether online or in person, should consider using the Gardening merit badge pamphlet for discovery and knowledge, along with the class preparation pages for clarifications, insights, and expectations.

<https://scoutmasterbucky.com/merit-badges/gardening/gardening-pamphlet.pdf>

<https://scoutmasterbucky.com/merit-badges/gardening/gardening-cpp.pdf>

REQUIREMENT 1a: Explain to your counselor the most likely hazards associated with gardening and what you should do to anticipate, help prevent, mitigate, and respond to these hazards.

HAZARD #1

Description:

Anticipate:

Help Prevent:

Mitigate:

Respond:



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HAZARD #2

Description:

Anticipate:

Help Prevent:

Mitigate:

Respond:



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HAZARD #3

Description:

Anticipate:

Help Prevent:

Mitigate:

Respond:



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HAZARD #4

Description:

Anticipate:

Help Prevent:

Mitigate:

Respond:



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HAZARD #5

Description:

Anticipate:

Help Prevent:

Mitigate:

Respond:



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HAZARD #6

Description:

Anticipate:

Help Prevent:

Mitigate:

Respond:



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REQUIREMENT 1b:

Discuss the prevention of and treatment for health concerns that could occur while gardening, including cuts, scratches, puncture wounds, insect bites, anaphylactic shock, heat reactions, and reactions from exposure to pesticides and fertilizers.

CUTS:

Prevention:

Symptoms:

Treatment:

SCRATCHES:

Prevention:

Symptoms:

Treatment:



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PUNCTURE WOUNDS:

Prevention:

Symptoms:

Treatment:

INSECT BITES:

Prevention:

Symptoms:

Treatment:



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ANAPHYLACTIC SHOCK:

Prevention:

Symptoms:

Treatment:

HEAT REACTIONS:

Prevention:

Symptoms:

Treatment:



REACTIONS FROM EXPOSURE TO PESTICIDES AND FERTILIZERS:

Prevention:

Symptoms:

Treatment:

REQUIREMENT 2: Do the following, and discuss your observations throughout the process with your counselor:

REQUIREMENT 2a: Grow six vegetables, three from seeds and three from seedlings, through harvest.

Vegetable #1:

☐ from seeds ☐ from seedlings

Vegetable #2:

☐ from seeds ☐ from seedlings

Vegetable #3:

☐ from seeds ☐ from seedlings

Vegetable #4:

☐ from seeds ☐ from seedlings

Vegetable #5:

☐ from seeds ☐ from seedlings

Vegetable #6:

☐ from seeds ☐ from seedlings



Gardening Merit Badge Workbook

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REQUIREMENT 2b: Grow six flowers, three from seeds and three from seedlings, through flowering.

Flower #1:

☐

from seeds

☐

from seedlings

Flower #2:

☐

from seeds

☐

from seedlings

Flower #3:

☐

from seeds

☐

from seedlings

Flower #4:

☐

from seeds

☐

from seedlings

Flower #5:

☐

from seeds

☐

from seedlings

Flower #6:

☐

from seeds

☐

from seedlings

Notes:



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REQUIREMENT 3a: Give the nutritional value of three root or tuber crops.

Root or Tuber Crop #1:

Nutritional Value:

Root or Tuber Crop #2:

Nutritional Value:

Root or Tuber Crop #3:

Nutritional Value:

REQUIREMENT 3b: Give the nutritional value of three vegetables that bear above the ground.

Above Ground Vegetable #1:

Nutritional Value:

Above Ground Vegetable #2:

Nutritional Value:

Above Ground Vegetable #3:

Nutritional Value:

REQUIREMENT 3c: Give the nutritional value of three fruits.

Fruit #1:

Nutritional Value:

Fruit #2:

Nutritional Value:

Fruit #3:

Nutritional Value:



Gardening Merit Badge Workbook

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REQUIREMENT 4: Test 100 seeds for germination. Determine the percentage of seeds that germinate. Explain why you think some did not germinate.

Consider using the [Gardening Merit Badge Pamphlet](#) for preparation information

This requirement must be reviewed with your merit badge counselor.

BE PREPARED!

Notes:



Gardening Merit Badge Workbook

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REQUIREMENT 5: Visit your county extension agent's office, local university, agricultural college, nursery, farm, or a botanical garden or arboretum. Report on what you learned.

Place Visited:

Date and Location of Visit:

Name and Title of who you met with:

Notes:



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REQUIREMENT 6: Explain to your counselor how and why honeybees are used in pollinating food crops.

Notes:

REQUIREMENT 6: Discuss the problems that face the bee population today.

Notes:

REQUIREMENT 6: Discuss what the impact to humanity would be if there were no pollinators.

Notes:



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REQUIREMENT 7: Identify five garden pests (insects, diseased plants). Recommend two solutions for each pest. At least one of the two solutions must be an organic method.

GARDEN PEST #1:

Pest:

Organic Solution:

Second Solution:

GARDEN PEST #2:

Pest:

Organic Solution:

Second Solution:



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GARDEN PEST #3:

Pest:

Organic Solution:

Second Solution:

GARDEN PEST #4:

Pest:

Organic Solution:

Second Solution:



GARDEN PEST #5:

Pest:

Organic Solution:

Second Solution:

DO ONE OF THE FOLLOWING (8A, 8B, 8C, 8D, or 8E) FOR REQUIREMENT 8

REQUIREMENT 8:	Do ONE of the following and record weekly observations. Discuss the results of your project with your counselor.
REQUIREMENT 8a:	Build a compost bin and maintain it for 90 days.
REQUIREMENT 8b:	Build a vermicompost bin (worm compost bin) and maintain it for 90 days.
REQUIREMENT 8c:	Build a hydroponic garden containing three vegetables or herbs, or three ornamental plants. Maintain this garden through harvest or flowering, or for 90 days.
REQUIREMENT 8d:	Build one water garden, either in a container (at least 12 by 6 inches and 6 inches deep), or in the ground as a small, decorative pond no larger than 6 by 3 feet and 24 inches deep. Maintain the water garden for 90 days.
REQUIREMENT 8e:	Prepare a honey super for use on a hive or colony. Remove a filled honey super from the hive or colony and prepare the honey for sale.
REQUIREMENT 8f:	Grow a garden of your own using soil from seed or plantings to harvest or for 90 days, whichever is earlier. This can be an outdoor garden or indoors using appropriate containers, and should include at least three types of plants approved by your counselor.

Consider using the [Gardening Merit Badge Pamphlet](#) for preparation information
Be sure to bring your completed work for your selected option to share with your counselor

This requirement must be reviewed with your merit badge counselor.

BE PREPARED!



DO ONE OF THE FOLLOWING (9A or 9B) FOR REQUIREMENT 9

REQUIREMENT 9a: Identify three career opportunities that would use skills and knowledge in gardening.

Career Opportunity #1:

Career Opportunity #2:

Career Opportunity #3:

REQUIREMENT 9a: Pick one and research the training, education, certification requirements, experience, and expenses associated with entering the field. Research the prospects for employment, starting salary, advancement opportunities and career goals associated with this career.

Selected Career Opportunity:

Training Requirements:

Education Requirements:

Certification Requirements:



Experience Requirements:

Expenses Associated With:

REQUIREMENT 9a: Research the prospects for employment, starting salary, advancement opportunities and career goals associated with this career.

Prospects for Employment:

Starting Salary:

Advancement Opportunities:



Gardening Merit Badge Workbook

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Career Goals:

REQUIREMENT 9a: Discuss what you learned with your counselor and whether you might be interested in this career.

Notes:

REQUIREMENT 9b: Identify how you might use the skills and knowledge in gardening to pursue a personal hobby and/or healthy lifestyle.

Notes:

REQUIREMENT 9b: Research the additional training required, expenses, and affiliation with organizations that would help you maximize the enjoyment and benefit you might gain from it.

Additional Training Requirements:



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Expenses:

Affiliated Organizations:

REQUIREMENT 9b: Discuss what you learned with your counselor and share what short-term and long-term goals you might have if you pursued this.

Notes:

