

Insect Study

Merit Badge Workbook

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

This Workbook can help you organize your thoughts as you prepare to meet with your merit badge counselor

Merit Badge Counselors may not require the use of this or any similar workbooks.

You still must satisfy your counselor that you can demonstrate each skill and have learned the information. You should use the work space provided for each requirement to keep track of which requirements have been completed, and to make notes for discussing the item with your counselor, not for providing full and complete answers.

If a requirement says that you must take an action using words such as "discuss", "show",

"tell", "explain", "demonstrate", "identify", etc, that is what you must do.

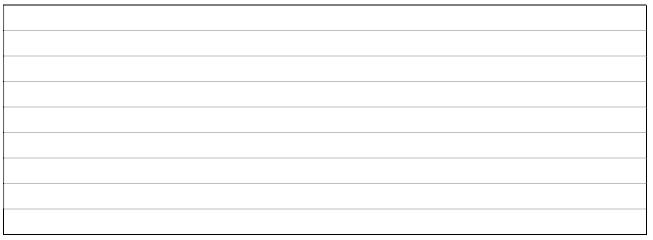
No one may add or subtract from the official requirements found in Scouts BSA Requirements (Pub. + 33216) and/or on Scouting.org.

The requirements were last revised on January 1, 2024 • This workbook was updated in January 2024.

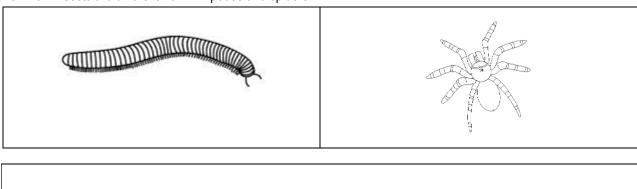
Scout's	Nam	e:	_ Unit	Date Started
Counsel	or's l	Name:	_ Phone No.:	Email:
Comm	Ple nents	ease submit errors, omissions, co s or suggestions for changes to	omments or suggestions about thi the <u>requirements</u> for the <u>merit ba</u>	s <u>workbook</u> to: <u>Workbooks@USScouts.Org</u> adge should be sent to: <u>Merit.Badge@Scouting.Org</u>
	Do	the following:		exposure to ants and bees and what you should do
			gate, and respond to these hazard	
	b.	Discuss the prevention of and t including insect bites and anap		could occur while working with ants and bees,

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2. Tell how insects are different from other animals.

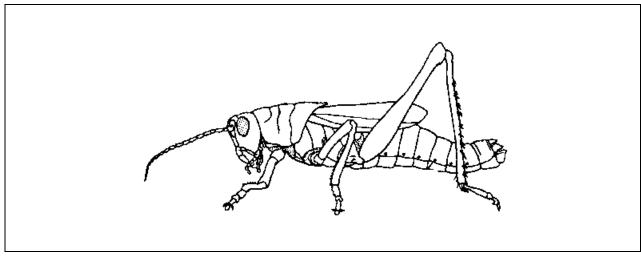


Show how insects are different from millipedes and spiders.





3 Point out and name the main parts of an insect.



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4	Describe	the ch	aracteristics	that	distinauish	the	maior	orders	of inse	etoد
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5. Do the following:

a. Observe 20 different live species of insects in their habitat. In your observations, include at least four orders of insects.

	Species	Order		Species	Order
1.			11.		
2.			12.		
3.			13.		
4.			14.		
5.			15.		
6.			16.		
7.			17.		
8.			18.		
9.			19.		
10			20		

b. Make a scrapbook of the 20 insects you observe in 4a (sic – this should be "5a"). Include photographs, sketches, illustrations, and articles. Label each insect with its common and scientific names, where possible. Share your scrapbook with your merit badge counselor.

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Insect	Study
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b.

Scout's Name:		

- 6. Do the following:
 - a. From your scrapbook collection, select eight species of insects and identify what role they play in the ecosystem.:

	Species	Roll in the ecosystem
1.		
2.		
3.		
4.		
5.		
6.		
7.		
8.		

8.					
	three alternatives to insecticides	as a way of prove	enting oron injury and	l subsequent viold le	20
Describ		as a way or preve	enting crop injury and	subsequent yield los	55.
Explain	the advantages and disadvantage	es of these alterna	tives.		

7. Explain the symbiotic relationship between bees and humankind.

Explain what colony collapse disorder (CCD) is and some of the possible causes. Discuss how CCD affects our food supply. Discuss how CCD affects our food supply. 8. Compare the life histories of a butterfly and a grasshopper. Butterfly Grasshopper:	ct Study	Scout's Name:
Discuss how CCD affects our food supply. 8. Compare the life histories of a butterfly and a grasshopper. Butterfly		
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Butterfly	Discuss now c	Allects our rood suppry.
Butterfly		
		ife histories of a butterfly and a grasshopper.
Grasshopper:	Butterfly	
Grasshopper:		
	Grasshopper:	
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Insect Study	Scout's Name:
Tell ho are diff	
	in insect through the complete metamorphosis from its larval stage to its adult stage (e.g. raise a butterfly or moth from
type of hal that is kno should be instances	cts are endangered species and are protected by federal or state law. Every species is found only in its own special itat. Be sure to check natural resources authorities in advance to be sure that you will not be collecting any species on to be protected or endangered, or in any habitat where collecting is prohibited. In most cases, all specimens eturned at the location of capture after the requirement is met. Check with your merit badge counselor for those where the return of these specimens would not be appropriate.
☐ a. O	E of the following: serve an ant colony in a formicarium (ant farm). Find the queen and worker ants. Explain to your counselor the
di:	erent chambers found within an ant colony.
	ady a hive of bees. Remove the combs and find the queen. Estimate the amount of brood and count the number of een cells. Explain how to determine the amount of honey in the hive.

Career:

Education:

Study	Scout's Name:
Training:	
Experience:	
Discuss this with	your councelor, and explain why this profession might interest you
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When working on merit badges, Scouts and Scouters should be aware of some vital information in the current edition of the *Guide to Advancement* (BSA publication 33088). Important excerpts from that publication can be downloaded from http://usscouts.org/advance/docs/GTA-Excerpts-meritbadges.pdf.

You can download a complete copy of the Guide to Advancement from http://www.scouting.org/filestore/pdf/33088.pdf.