

Insect Study

Merit Badge Workbook

SERVE

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.

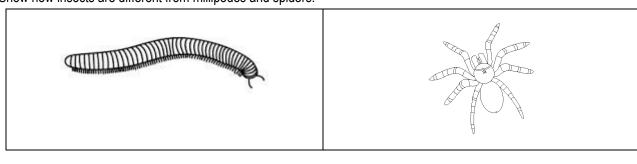
Scout's	Name:	Unit	Date Started
Counse'	lor's Name:	Phone No.:	Email:
	Please submit errors, or ments or suggestions for o	missions, comments or suggestions a changes to the <u>requirements</u> for the	about this workbook to: Workbooks@USScouts.Org merit badge should be sent to: Merit.Badge@Scouting.Org
1.	Do the following:		
		revent, mitigate, and respond to these	
		tion of and treatment for health conce s and anaphylactic shock.	rns that could occur while working with ants and bees,

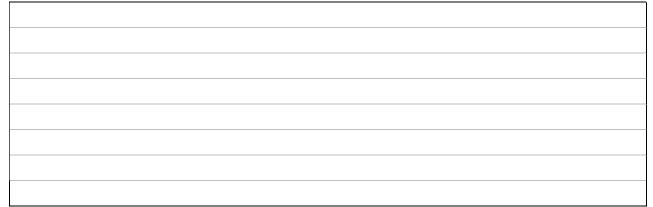
Workbook © Copyright 2024 - U.S. Scouting Service Project, Inc. - All Rights Reserved Requirements © Copyright, Boy Scouts of America (Used with permission.)

2. Tell how insects are different from other animals.

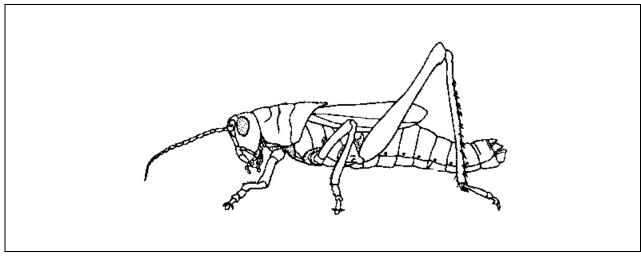


Show how insects are different from millipedes and spiders.





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



4	December 2	Alexander and		11 1	ar a real and the fa-	d				1.
4.	Describe	tne chara	cteristics	tnat	distinauish	tne r	naior (oraers	ot insec	ιs

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.

b.

Scout's Name:		
วบบนเอาหลาแน.		

- 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.		
cribo	three alternatives to insecticides	es a way of preventing crop injury and subsequent yield loss

8.	
Describe three alternatives to insecticides as a way of preventing	g crop injury and subsequent yield loss.
· ·	
Explain the advantages and disadvantages of these alternatives.	
1 0	

7. Explain the symbiotic relationship between bees and humankind.

Scout's Name:
olony collapse disorder (CCD) is and some of the possible causes.
CD affects our food supply.
fe histories of a butterfly and a grasshopper.
e filstoffes of a butterity and a grassificapper.

Insect Study		Scout's Name:
	how they different.	
		et through the complete metamorphosis from its larval stage to its adult stage (e.g. raise a butterfly or moth from
*Some i type of I that is k should I instance	habitat. Be known to b be returned es where th	endangered species and are protected by federal or state law. Every species is found only in its own special sure to check natural resources authorities in advance to be sure that you will not be collecting any species e protected or endangered, or in any habitat where collecting is prohibited. In most cases, all specimens d at the location of capture after the requirement is met. Check with your merit badge counselor for those are return of these specimens would not be appropriate.
	ONE of the Observe a	e following: an ant colony in a formicarium (ant farm). Find the queen and worker ants. Explain to your counselor the
_	different c	hambers found within an ant colony.
□ b.		ve of bees. Remove the combs and find the queen. Estimate the amount of brood and count the number of ls. Explain how to determine the amount of honey in the hive.

Career:

Education:

Study	Scout's Name:
Training:	
Experience:	
_	
Discuss this wi	th your counselor, 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.