

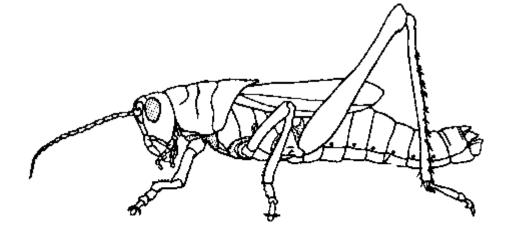
Insect Study

Merit Badge Workbook

This workbook can help you but you still need to read the merit badge pamphlet (book). No one can add or subtract from the Boy Scout Requirements #33215. Merit Badge Workbooks and much more are below: Online Resources. Workbook developer: craig@craiglincoln.com. Requirements revised: 2008, Workbook updated: November 2008.

Scout's Name: Counselor's Name:	Unit: Counselor's Ph #:
Tell how insects are different from all other animals.	
Show how insects are different from centipedes	and spiders.

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



Insect Study p. 2	Merit Badge Workbook Scout's Name:
3. Describe the o	characteristics that distinguish the principal families and orders of insects.
4 D. " . " . "	
4. Do the following	
	different live species of insects in their habitat. In your observations, include at least four orders of insects.
	apbook of the 20 insects you observe in 4a. Include photographs, sketches, illustrations, and articles. Label each common and scientific names, where possible. Share your scrapbook with your merit badge counselor.
(See the \underline{C}	Online Resources for insect scrapbook photos, articles, common & scientific names, etc.)
5. Do the following	ng:
a. From your s	scrapbook collection, identify three species of insects helpful to humans
and five speci	es of insects harmful to humans.
and mo opoor	
b. Describe so	ome general methods of insect control.

Insect Study p. 3	Merit Badge Workbook	Scout's Name:
6. Compare the life histories of a b	utterfly	
and a grasshopper.		
Tell how they are different.		
,		
	plete metamorphosis from its larval stage to	o its adult stage (e.g. raise a butterfly or moth from a
special type of habitat. Be s collecting any species that is most cases, all specimens sh merit badge counselor for tho	sure to check natural resources authoritie known to be protected or endangered, or	
9 Tell the things that make social i	nsects	
o. Toll the things that make booker		
different from solitary insects		
amorone nom contary modelo.		
10. Tall how insects fit in the food of	chains of other insects fish hirds and man	nmals
10. Tell How Hiseots lit III the 1000 (orianio di dutar modulo, non, biruo, anu man	
11. Find out about three career opp	portunities in insect study.	

insect S	Study p. 4		ivierit Badge vvorkboo	K	Scout's Name:	
Pick on	e					
and find	d out about the e	ducation, training.	and experience required for	this professio	n.	
				р. отобого		
						-
Discuss	this with your o	ounselor and evol	ain why this profession migh	nt interest vou		
Discuss	s uns with your o	ouriscior, and expi	ani wity this profession migr	it intorost you.		
	outs of Americ	a: ► scouting.org	ource with caution and only ► Guide to Safe Scouting ► Second Class ► First	► Age-Apr	•	► <u>Safe Swim Defense</u>
Boy Sc			scouts.org -or- meritbadge.o			
Requir	ement Resourc	es:				
1 & 2:			tc: http://en.wikipedia.org/wi	ki/Insect		
3:	Insect Families	: http://nrs.ucdavis	s.edu/stebbins/species/insec	t_families.htm		
	Insect Orders:	http://insects.tamu	.edu/fieldguide/ http://	/www.earthlife	.net/insects/orders.htr	<u>nl</u>
4:	Texas A & M o	nline scrapbook w	ith photos, articles, scientific	names, etc.:	nttp://insects.tamu.edu	ı/fieldguide/
	How to identify	insects (with scra	pbook pages): <u>http://www.an</u>	nentsoc.org/in	sects/what-bug-is-this	/adult-key.html
	University of Ko	entucky online scr	apbook: <u>http://www.uky.edu/</u>	Ag/CritterFiles	/casefile/insects/insec	<u>tfile.htm</u>
	Iowa State Uni	versity Interactive	Bug Guide: <u>http://bugguide.r</u>	net/node/view/	52/bgpage	
5a:	Helpful Insects	: http://www.bugs	mart.ca/bug/helpful/ ht	ttp://www.inse	ctidentification.org/hel	pful_insects.asp
	Harmful Insects	s: http://plantfairnu	rsery.com/harmful_insects.h	<u>ıtm</u>		
		http://insectzoo.	msstate.edu/OrkinZoo/harm	<u>ful.html</u>		
6:	Butterflies:	http://en.wikiped	lia.org/wiki/Butterfly h	ttp://butterflyw	ebsite.com/	
	Grasshoppers:	http://en.wikiped	lia.org/wiki/Grasshopper ht	ttp://insected.a	rizona.edu/ghopperin	<u>fo.htm</u>
8:	Ant colony web	ocams: http://w	ww.antcam.com/ http:/	<u>//www.nhm.ac</u>	.uk/kids-only/natureca	ms/antcam/
	USDA Beehive	webcam: http://g	ears.tucson.ars.ag.gov/beed	<u>cam/</u>		
<u>Genera</u>	al Resources:					
		ederation: http://w	ww.abfnet.org			
	. •		ww.acnatsci.org/aes			
	-	of America: http://w				

Entomological Society of America: http://www.er
Monarch Watch: http://www.monarchwatch.org
BioQuip Products: http://www.bioquip.com