

INSECT STUDY

REQUIREMENT #1:

Tell how insects are different from all other animals:

Show how insects are different from centipedes and spiders.

REQUIREMENT #2:

Point out and name the main parts of an insect.

- | | | | | |
|-------------------|--------------|---------------|------------|-------------|
| 1. Ovipositor | 2. Spiracles | 3. Mouthparts | 4. Legs | 5. Head |
| 6. Wings | 7. Antenna | 8. Thorax | 9. Ocellus | 10. Abdomen |
| 11. Compound Eyes | | | | |

REQUIREMENT #3:

Describe the characteristics that distinguish the principal families and orders of insects.

1.

2.

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12.

13.

REQUIREMENT #4:

Do the following:

- a. Observe 20 different live species of insects in their habitat. In your observations, include at least four orders of insects.
- b. Make a scrapbook of the 20 insects you observe in 4a. 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.

****4a and 4b are prerequisites****
Please bring completed scrapbook to class.

REQUIREMENT #5:

Do the following:

- a. From your scrapbook collection identify three species of insects helpful to humans and five species of insects harmful to humans.

Helpful Insects	Harmful Insects
1. _____	1. _____
2. _____	2. _____
3. _____	3. _____
	4. _____
	5. _____

- b. Describe some general methods of insect control.

REQUIREMENT #6:

Compare the life histories of a butterfly and a grasshopper. Tell how they are different.

REQUIREMENT #7:

Raise an insect through complete metamorphosis from its larval stage to its adult stage (e.g. raise a butterfly or moth from a caterpillar).

****This is a prerequisite**
Bring photos to class.**

REQUIREMENT #8:

Observe an ant colony or a beehive. Tell what you saw.

REQUIREMENT #9:

Tell things that make social insects different from solitary insects.

REQUIREMENT #10:

Tell how insects fit in the food chains of other insects, fish, birds and mammals.

REQUIREMENT #11:

Find out about three career opportunities in insect study. Pick one and find out the education, training and experience required for this profession. Discuss this with your counselor, and explain why this profession might interest you.

1. _____

2. _____

3. _____
