



Insect Study

Scout's Name: _____

Date: _____

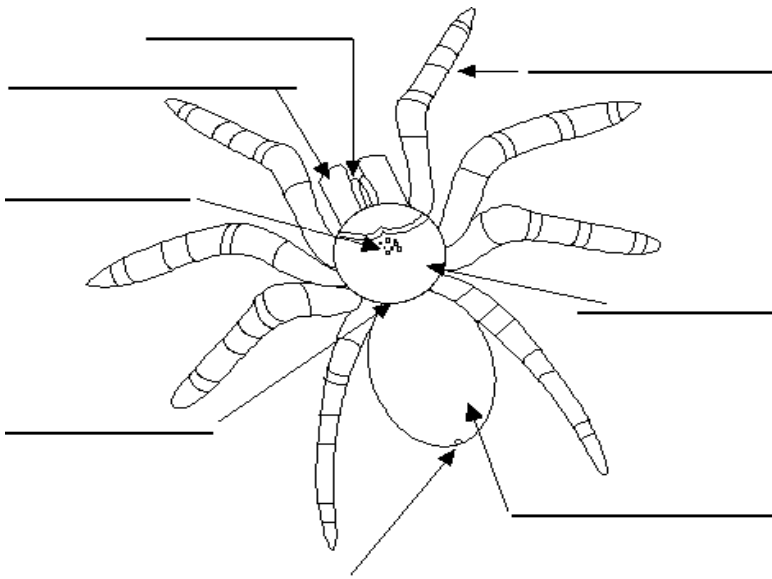
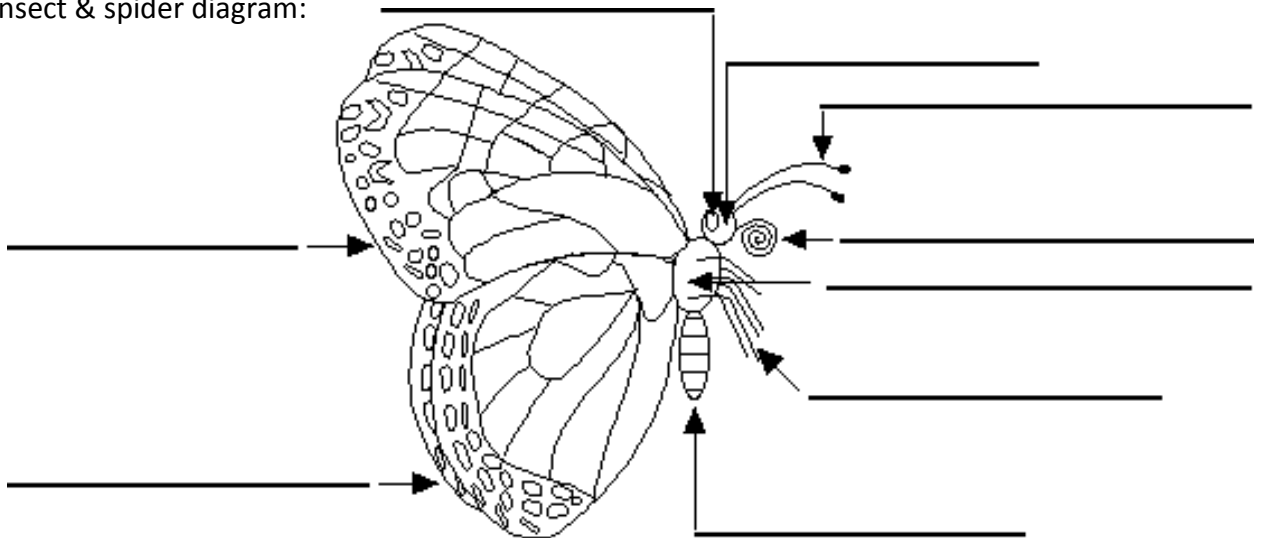
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21950 N. Riverwoods Rd., Riverwoods 60015

1) What are the hazards associated with exposure to stinging insects? Discuss prevention and treatment.

2) List the characteristics of insects. How are insects different from centipedes & spiders?

3) Label the insect & spider diagram:



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

Orthoptera: _____

Homoptera: _____

Hemiptera: _____

Odonata: _____

Lepidoptera: _____

Diptera: _____

Coleoptera: _____

Hymenoptera: _____

5a) Observe 20 different insects, including at least 4 orders.

Insect	Order	Insect	Order
1. _____	_____	2. _____	_____
3. _____	_____	4. _____	_____
5. _____	_____	6. _____	_____
7. _____	_____	8. _____	_____
9. _____	_____	10. _____	_____

11. _____ 12. _____
 13. _____ 14. _____
 15. _____ 16. _____
 17. _____ 18. _____
 19. _____ 20. _____

5b) Make a scrapbook of the 20 insects, include photos, sketches. Label each insect with **order, common & scientific names** where possible.

6) Identify which 3 species are helpful to humans and 5 species that are harmful.

Helpful:

1. _____
2. _____
3. _____

Harmful:

1. _____
2. _____
3. _____
4. _____
5. _____

Discuss methods of insect control.

7) Observe a beehive. Explain colony collapse disorder (CCD) and how it affects our food supply.

8) Compare life cycles of a butterfly and a grasshopper.

Butterfly

Stages: _____

Grasshopper

Stages: _____

How they are different? _____

9) The forest preserve does not support collecting of any insect to observe the metamorphosis process. Taking caterpillars from the wild to raise often results in failure. To better help insects survive we suggest this activity be replaced with a habitat restoration project. Search our website for restoration workdays or see the calendar for dates and locations. www.LCFPD.org . If you have participated in previous butterfly raising such as a school project, that will count for #9.

10) Break group into smaller groups. Read the Monarch Natural History and answer the questions. Discuss the *Dilemma Scenarios* then share their thoughts with the councilor and rest of the class.

Take home the Monarch Watch information sheet and plant the milkweed seeds in your yard. Encourage your school and community to plant pollinator friendly gardens. If your school raises butterflies, encourage them to choose monarchs to raise and pass along the Monarch Watch Information to them. *Monarch*

Resources:

Monarch Watch <http://www.monarchwatch.org/> ; Save the Monarchs – USFWS <https://www.fws.gov/savethemonarch/> ; Flight of the Butterflies <http://www.flightofthebutterflies.com/home/>

This is a substitute that better aligns with current environmental concerns for this region than the original requirement.

11) Tell the difference between social insects and solitary insects.

12) Make a food chain. List the items in order from bottom to top of the food chain.

1 _____ 2 _____ 3 _____
4 _____ 5 _____ 6 _____

13) Find out about 3 career opportunities in the insect field:

Educator: _____

Scientist: _____

Exterminator: _____
