



Name: _____

Important Note: All items with an asterisk (*) are REQUIRED!

C. Concepts Layer

4 Points Each

Maximum 56 Points

Objective: To observe and describe the structure and function of the male, female, and larval mosquito.

___ *Both write and draw observations of the different mosquitoes on the microscope slide.

___ *Listen and take notes or look up brief information on insect body structure. Be able to do an oral defense on the basic parts of an insect.

Objective: To be able to describe and explain the life cycle and habitats of the mosquito.

*Listen and take notes or look up brief information of the following concepts and take notes. Be able to do an oral defense on each concept (4 points for each concept):

___ Complete metamorphosis

___ Incomplete metamorphosis

___ *In an oral quiz, sketch and explain the life cycle of the mosquito, including the type of metamorphosis and the habitat required.

___ View the Metropolitan Mosquito Control District PowerPoint. Do a 3-2-1 in your journal: 3 new things learned, 2 questions that you still have and 1 coolest thing.

Objective: To be able to explain the spread, treatment, and prevention of a mosquito borne disease.

*With your group, pick a mosquito borne (carried) disease and research the information below. Display your findings to the class in any way (poster, PowerPoint, video, etc.) that you choose, however the product must explain the disease to your audience in a "quick and clear" information format. Some possible diseases to research are: West Nile, Malaria, LaCrosse Encephalitis, Heartworm, Dengue Fever, Western Equine Encephalitis, and Yellow Fever. Each piece is worth 4 points.

___ Type of organism (virus, bacteria, etc.) causing the disease

___ Species of mosquito carrying the disease

___ Animal species affected by the disease

___ How the disease spreads

___ Country and/or states where the disease is found

___ Symptoms of the disease and incubation period

___ Treatment of the disease

___ Frequency and Prevention

___ Recovery rate, mortality (death) rate, long-term effects

B. Investigation Layer Groups Choose 1 Maximum 20 Points

Objective: To design and present a mosquito population investigation

*Design an investigation to determine the population of adult and/or larval mosquitoes near school.

___ Question

___ Procedure

___ Data

___ Conclusion

___ 2 Further Questions

A. Critical Thinking Choose 1 Maximum 8 Points

Objective: To analyze a real-world topic related to mosquitoes and the problems they cause.

Select a question below and read one of the articles available in the classroom on that topic. Get together with others that read the same article (limit 4 in a group) and use the whiteboard to report out the main points of the article and your opinion on the topic question below.

***Choose 1:**

How are irrigation and West Nile related? Do we stop irrigation?

Do carbon dioxide emission mosquito repellents work?

Is there a link between climate change and mosquito-borne diseases?

___ 4 points for whiteboard report out

___ 4 points for opinion, backed up with reasons