



Find out all the **buzz** behind the world's deadliest animal, the mosquito, in this 40 minute scientific program. Students will learn about the stages of a mosquito life cycle as it goes through complete metamorphosis. Physical and behavioral adaptations that have helped this amazing insect survive for over 100 million years will also be covered. Join us on this interactive insect experience!

Lesson Objectives:

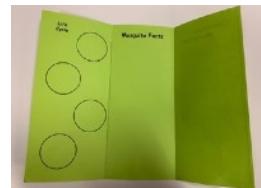
- ✓ Students will recognize each stage of complete metamorphosis and its purpose.
- ✓ Students will understand the advantages mosquitoes provide to an environment.
- ✓ Students will recognize different physical and behavioral adaptations of mosquitoes.
- ✓ Students will identify physical characteristics of insects, including the mosquito.

Pre-Lesson Mosquito Inquiry:

Prior to watching the Mosquito-Ed lesson, explore depth of knowledge, with a scientific inquiry question about impact of mosquitoes in their environment. Give the students five minutes to complete the [Mosquito Inquiry Worksheet](#). Remind the students NOT to put their names on their worksheet. After the students have completed their worksheet, have the students fold their sheet, then stand. While playing music (*All My Friends are Insects* by Weezer is a perfect song choice!), have the students walk around the room, trading papers as many times as they can before the music stops. Allow students to read their final sheet and share out answers. This activity provides student accountability while building a safe, judgment-free classroom culture.

Post-Lesson Activity:

After viewing the Mosquito-Ed lesson, have your students use the [Mosquito Brochure](#) to assess their knowledge of complete metamorphosis and basic mosquito biology. Students can research methods of controlling mosquitoes with the Integrated Pest Control Methods practiced today.



Lesson Questions:

DOK 1

- Can you identify the life stages of complete metamorphosis?
- How would you describe the purpose of an exoskeleton?
- What is the definition of an adaptation? Name one physical mosquito adaptation.

DOK 2

- How are incomplete and complete metamorphosis alike/different?
- Explain three ways mosquitoes benefit our environment.
- Compare and contrast a mosquito life cycle and a butterfly life cycle. How are they alike/different?

DOK 3

- Predict what would happen to mosquitoes if they could not find us by sensing carbon dioxide?
- What evidence supports that mosquitoes are readily able to survive in our world?
- Analyze how weather might affect the mosquito life cycle.