

Virtual Beetle Dissection Activity

Beetle X-ray Videos

Instructions: Open the beetle x-ray video viewer webpage. View the *Dicronorrhina derbyana* beetle x-ray videos. Read the text on the webpage. Answer the following questions while reading and observing the videos.

1. Record observations of the following tissues and structures using the x-ray videos:
 - a) flight muscles
 - b) leg muscles
 - c) brain
 - d) eyes
 - e) digestive tract
 - f) testes
 - g) eggs
 - h) penis
 - i) legs
 - j) wings
 - k) elytra
 - l) spiracles
2. Explain why different types of tissue appear brighter or darker on x-rays.
3. Which structures are easy to see on the x-rays? Why?
4. Which structures are difficult to tell apart on the x-rays? Why?

