SECTION REVIEW

- What are three characteristics of arthropods? Name the four subphyla of arthropods.
- 2. Compare complete and incomplete metamorphosis.
- Describe the different types of organs that are used in arthropod respiration.
- 4. Critical Thinking Making Inferences Terrestrial arthropods often have valves that can open and close the spiracles. How are these valves an adaptation to life on land? (Hint: What is the function of the stomata on leaves?)

SECTION REVIEW

- What are chelicerates? Name and give examples of the two main groups of chelicerates.
- 2. What is silk? How do spiders use silk?
- Critical Thinking—Summarizing Information. How are chelicerae modified for feeding in spiders? In ticks?

SECTION REVIEW

- 1. What is a cephalothorax?
- Describe the types of appendages on crayfish and give their functions.
- 3. Critical Thinking—Applying Concepts Suppose you want to catch a crayfish with a net. Should you try to scoop it up head first or tail first? Explain.

SECTION REVIEW

- Compare the body plans and feeding habits of millipedes and centipedes.
- 2. Describe the basic body plan of an insect.
- 3. Give three specific examples of why and how insects communicate.
- 4. Explain how the mouthparts of bees, mosquitoes, and butterflies are adapted to different food sources.
- 5. How does the waggle dance of honeybees convey information about the location of a food source?
- 6. Critical Thinking—Relating Cause and Effect If all worker bees are females, why is the queen the only egg-layer in the colony?

SECTION REVIEW

- 1. Why are certain insects essential to agriculture?
- 2. How are arthropods beneficial to other living things? Give specific examples.
- Critical Thinking—Relating Concepts Name three dangerous or destructive arthropods and explain how they cause problems for humans.