

## Unit III

### Chapter 10-- *Animals with Armor*



#### Performance Standards

Demonstrate understanding of the basic characteristics of the crustaceans. Describe the structures and functions of lobsters and crabs. Identify important features of the smaller crustaceans and other marine arthropods.

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| SC.E.1.4.3 | Know the various reasons that Earth is the only planet in our Solar System that appears to be capable of supporting life, as we know it.   |
| SC.G.1.4.1 | Know of the great diversity and interdependence of living things.  |
| SC.G.1.4.2 | Understand how the flow of energy through an ecosystem made up of producers, consumers, and decomposers carries out the processes of life and that some energy dissipates as heat and is not recycled. |

With their tough body covering and movable appendages, lobsters, crabs, and other members of the phylum Arthropoda can move about with some degree of security.

#### STUDENT INSTRUCTIONS

1. Read chapter 10 pages 208-225 in your text and
  - a. write definitions, or...
  - b. draw pictures, or ...
  - c. diagram explanations for the 17 vocabulary words found on page 228.
2. After reading the chapter, complete the **Fill In** questions (1-10) on page 228 and the **Multiple Choice** questions (14-23) on page 229.
3. Complete the Extended Response question on the following page.
4. Complete the lab activity on Adaptations of Crabs.
5. Turn in all completed work and ask your instructor for the Chapter 10 Test.

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## Lab Activity--Adaptations of Crabs

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Problem: How is a crab adapted for carrying out its life functions?

Skill: Researching adaptive features of a crab's external anatomy.

Materials: Pages 212-215 and Figure 10-8 on page 227 in your text.

Procedure:

1. Re-read pages 212-215 in your text.
2. Label the diagram of the crab with the following words: Antennae, Antennules, Eyes, Cheliped, Walking legs, Swimming legs, Abdomen, Carapace.



Observations and Analyses:

1. What are the advantages and disadvantages of an exoskeleton?
2. What body parts does the crab use to ingest food?
3. How is the crab adapted for locomotion?
4. How does the crab sense its environment?