

Unit II  
Chapter 5--  
*Marine Algae and Plants*



**Performance Standards**

Describe the three main groups of macroscopic algae. Discuss adaptations of beach plants and marine grasses. Explain the importance of mangrove tress to marine life.

SC.F.1.4.1	Know that the body processes involve specific biochemical reactions governed by biochemical principles.
SC.F. 1.4.2	Know that body structures are uniquely designed and adapted for their function.
SC.G.2.4.4	Know that the world ecosystems are shaped by physical factors that limit their productivity.

Learn how marine algae and plants are adapted to marine environments and why they are important to other marine organisms.

**STUDENT INSTRUCTIONS**

1. Read chapter 5 pages 101-117 in your text and
  - a. write definitions, or...
  - b. draw pictures, or...
  - c. diagram explanations for each of the 21 vocabulary words found on page 120.
2. After reading the chapter, complete the **Fill In** questions (1-10) on page 120 and the **Multiple-Choice** questions (13-20) on page 121.
3. Complete the Extended Response question on the following page.
4. Complete the activity on Adaptations of Marine Algae.
5. Turn in all completed work and ask your instructor for the Chapter 5 Test.

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## Adaptations of Marine Algae Activity

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Problem: How are marine algae adapted to live in the ocean?

Skill: Observing the external structure of seaweed

Material: Diagram of brown algae "*Fucus*"

Procedure:

1. Using Figure 5-10 on page 119 and the information found on pages 105-108 "Brown Algae" in your text, complete the observation and analyses questions.
2. Using Figure 5-10, draw and label the following parts of the brown algae *Fucus*: Tips where growth occurs, Receptacles, Air Bladder, and Holdfast.

Observations and Analyses:

1. What are three adaptations *Fucus* shows for carrying out photosynthesis?
2. What structure prevents *Fucus* from being washed ashore?
3. Why do you think *Fucus* lives close to shore and not out in the open sea?