

Creating a Community

Grade 1



Key Concepts

- ▼ There are many different environments on Earth.
- ▼ All living things need food, water, space, and shelter to grow and live.
- ▼ Animals and plants that live in an environment have specific adaptations that let them thrive there.
- ▼ Kelp forests are home to many ocean animals that find food and shelter there.

Vocabulary

algae: a plant-like organism that usually lives in rivers, lakes, or the ocean. It can be red, brown, green, or blue-green. Marine algae lives in the ocean and is also called “seaweed”

blade: the portion of algae that resembles a leaf and is connected to the main stem, or stipe, by a float

float: hollow, gas-filled ball between the blade and stipe of brown algae that causes them to float towards the surface

habitat: the region where an organism finds the water, food, space, and shelter it needs to survive

holdfast: the root-like structure that anchors algae to substrate on the ocean floor

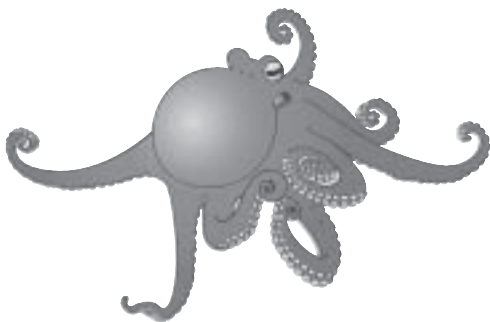
kelp: a type of brown marine algae

organism: any living thing

sanctuary: a place of refuge or protection

shelter: an animal’s home where it is protected from weather, predators, and other harmful things

stipe: the stem-like structure of marine algae



Directions for Activity Page:

- ▼ **How Many Arms?** This math worksheet introduces students to common kelp forest animals while giving them practice at number sentences.
- ▼ **Parts of a Forest:** Students compare the structure of a tree with a kelp plant. This worksheet may be used before or after the program.

Make the Most of Your Museum Visit

Classroom Activities

- ▼ Introduce the **key concepts**.
- ▼ Introduce the **vocabulary**. Have students listen for the initial sound in each word, or clap the syllables.
- ▼ Ask parents to help students **locate items from home that contain kelp products**. Look for the ingredients algin, alginate, carrageenan, and agar on the "List of Ingredients." Bring items to class and display on a table for the WoW visit. Hint: dairy products, frozen foods, toothpaste, and make-up are great starting points!
- ▼ Ask students to **imagine what kind of animal they would be** if they lived in the ocean. Have students write three sentences describing what animal they are, what they look like, and where they live. When they are done, ask them to draw themselves in their ocean home.
- ▼ **Shelter Bar Graph:** During the felt board activity of your WoW Program, a volunteer will record how many animals live in each shelter type. Use this information to make a bar graph.
- ▼ **Seaweed Silhouette:** Make a beautiful print by collecting seaweed from the beach and placing it on sunpaper in the sun.
- ▼ **Algae Press:** Collect seaweed from the beach. Soak it in a tub of water. Spread it out on cardstock, being sure to only use flat parts. Place a sheet of wax paper over the seaweed, followed by a piece of cardboard. Layer students' algae presses, and compress between heavy cardboard with strong rubberbands. Let dry for one week. The seaweed will stick to the paper. If they are flat enough, algae presses can be laminated.
- ▼ Encourage children to continue learning about this topic! Invite them to **bring their families** to the Museum with their Free Family Pass.

Literature

- ▼ **The Kelp Forest: The Ebb and Flow of Life in the Sea's Richest Habitat** by Ashala Nicols-Lawler. (EZ Nature Books, 1999) 40pp. The captivating photography and descriptive text introduce your students to creatures of the kelp forest.


Resources


- ▼ **The Nature Collection, Santa Barbara Museum of Natural History**
This educational loan service provides curriculum kits, books, videos, biological specimens, and Chumash Indian artifact reproductions to educators. For Nature Collection membership information, call 682-4711 ext. 333.




Waves on Wheels is a program of the Santa Barbara Museum of Natural History in partnership with the Channel Islands National Marine Sanctuary.


HOW MANY ARMS?


1. A  has $2 + 3 =$ _____ arms.


2. A  has $2 + 8 =$ _____ legs.


3. The  has $4 + 1 =$ _____ kinds of fins.


4. A  has $3 - 1 =$ _____ feelers.


5. An  has $10 - 2 =$ _____ arms.

6. A  has $1 + 1 + 1 + 1 =$ _____ legs.

7. This  has $16 + 4 =$ _____ tentacles.

8. The  has $7 + 3 =$ _____ legs.

9. The  has $4 - 2 =$ _____ eyes.

10. A  has $2 + 2 + 1 =$ _____ arms.

Name _____

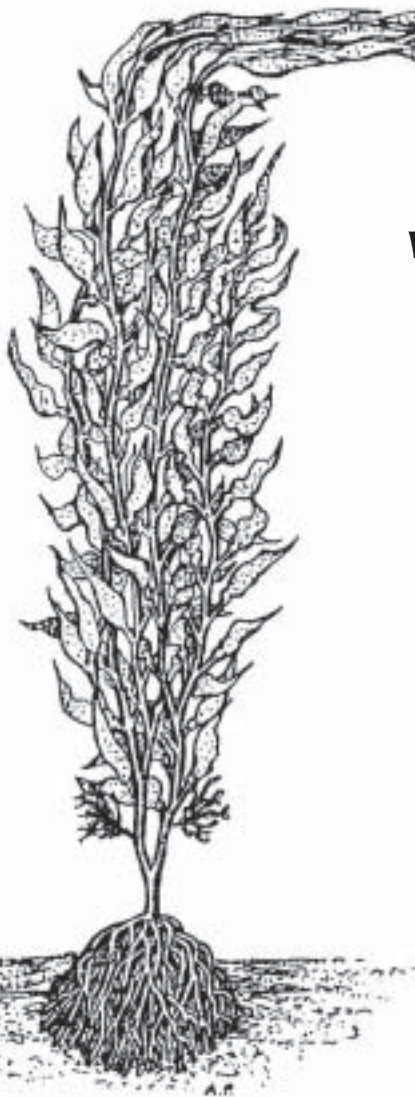
PARTS OF A FOREST

Draw a line from each word to the part of the plant it describes.

Draw animals that live in each.

Kelp in the Ocean

Tree on Land



Word List

stipe

roots

float

trunk

leaf

blade

holdfast

