## The Marine Food Web

#### Grades: 5-8

#### **Materials**

- Animal pictures with fact card
- Crayons/coloring pencils
- Tape
- A laminated ocean mural
- String ball

#### **Topics:**

- Help students learn about the food web and energy flow in the ocean
- Gain some information of predation.

#### **Description:**

Part 1. Hold a classroom discussion about food webs and energy flow, and let the<br/>studentstudentfulfillstudentsheetpart1.

**Part 2.** We offer a blank picture of the seafloor, and students will fill the food web with the animal cards, making appropriate connections between the various organisms and correctly labeling producers, consumers and decomposers, herbivores and carnivores.

**Part 3.** Have students create a name tag for themselves with the name of their organism and a picture if they desire. Wearing the nametags, form a circle and, tossing a ball of string, make connections between organisms in the food web. Ask the students to describe the nature of the relation between their organism and the organism they choose to throw the ball of yarn to. Once you have a nice web with lots of wonderful connections, ask some part of the web (primary producers, for instance) to let go. Observe what happens to your beautiful web.

From http://www.lobsters.org/loblit/foodweb.html, Feb 11th 2007

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### **Students Sheet**

#### Part 1

Fulfill this list by the name of animals!	
Phytoplankton:	
Zooplankton	
Filter-feeding fish	
Large carnivorous animals	
Decomposers and detritus eaters	

#### Part 2

Fill the food web with the animal cards, making appropriate connections between the various organisms and correctly labeling producers, consumers and decomposers, herbivores and carnivores.

**Part 3.** Finish a nametag for yourself with the name of one organism and a picture if you want. Wearing the nametags, form a circle and, tossing a ball of string, make connections between organisms in the food web. Describe the nature of the relation between you and others you chosen to throw the ball of yarn to. Once you have a nice web with lots of wonderful connections, ask some part of the web (primary producers, for instance) to let go. Observe what happens to your beautiful web.

Hey!

I am \_\_\_\_\_

# Marine Organisms



### Marine Organisms



# The Marine Food Web

### Answer key for Teachers

#### **Background Information**

All living things need energy to grow, reproduce and survive. The energy begins with the sun. Plants trap the solar energy and, through photosynthesis, convert it into the sugars that are their food. Animals eat the plants, taking some of that sunharvested energy into themselves. Other animals eat those animals. This is the formation of food web, and the energy is flowing along the food chains.

Almost all food chains begin with producers harvesting energy from the sun. From there the energy is passed from producers to consumers: herbivores, carnivores, and omnivores. When these die the energy passes to scavengers and decomposers, and back into the soil. Decomposers, as the last step to replenishing the soil, are both the end and the beginning of any food chain.

Part 1	
Phytoplankton:	Diatoms
	Dynoflagellates
Zooplankton	Copepods
	Crab
	Fish
	Lobster larvae
Filter-feeding fish	Herring
	Basking shark
Large carnivorous	Mackerel
animals	Bluefish
	Tuna
	Jellyfish
	Sea turtles
	Adult lobsters
Decomposers and	Worm
detritus eaters	Bacteria

To determine what each organism eats, we recommend these books:

- Robins, C.R., Ray, G.C., Douglass, J. 1986. Peterson field guides Atlantic coast fishes. Houghton Mifflin Company, New York, NY.
- Gosner, K.L. 1978. Peterson field guides Atlantic seashore. Houghton Mifflin Company, New York, NY.