

## Worksheet 7L - Natural and Unnatural Biological Processes in the Ocean

**Score: 75**

Organisms that use photosynthesis or chemosynthesis to make food are called:  
Refer to pg 152/Chap#42:Primary Productivity in the Ocean in the Lab Manual.

Heterotrophs  
Saprophytes  
Autotrophs  
Omnivores

**SCORE: 5/5.0 points**

**CORRECT ANSWER(S):**

Autotrophs

Consider the arrows shown on the food web (Figs 10-13 & 10-16 in text and pgs 158-159/Chap#42:Food Webs in the Lab Manual). What does the number of arrows leading FROM one species to another suggest about that species' importance in the food web?

This species is an important food source for many other species.  
That species preys on many other species.  
That species has a limited role in the food web.  
That species is endangered.

**SCORE: 5/5.0 points**

**CORRECT ANSWER(S):**

This species is an important food source for many other species.

**HELPFUL INFORMATION**

The textbook diagram is probably better for this question.

In the food web, what may indicate that a species is vulnerable to becoming endangered or extinct? Refer to pg 158-159/Chap#42:Food Webs in the Lab Manual.

Think about top-level consumers.

Many arrows pointing to it. **WRONG**

Many arrows pointing away from it.

Only one arrow pointing to it.

There is no relationship.

**SCORE: 0/5.0 points**

**CORRECT ANSWER(S):**

Only one arrow pointing to it.

**HELPFUL INFORMATION**

Remember specialized feeders don't adapt well. Think Manatees & pandas.

What is the role of bacteria in nutrient cycles?

Refer to pg 158/Chap#42:Food Webs in the Lab Manual.

Hint what is the primary chemical that bacteria recycle?

Bacteria play an important role in the nitrogen cycle.

QUESTION: What is the role of bacteria in nutrient cycles?  
ANSWER: Bacteria play an important role in the nitrogen cycle.  
SCORE: 0/5.0 points  
CORRECT ANSWER(S): Bacteria play an important role in the nitrogen cycle.  
HELPFUL INFORMATION: Bacteria play an important role in the nitrogen cycle.