

Which of the following is closest to the percentage of the total water on earth that is fresh water?

- (A) 100%
- (B) 90%
- (C) 70%
- (D) 3%

S032115

	Temperature	Dissolved Salt	Volume of Water	Density
Pure Water	25°C	0 g	100 ml	1.0 g/ml
Salt Solution	25°C	10 g	100 ml	?

The incomplete table above compares some data for pure water and for a salt solution.

What is the density of the salt solution?

(Check one box.)

- 1.0 g/ml
- Less than 1.0 g/ml
- Greater than 1.0 g/ml

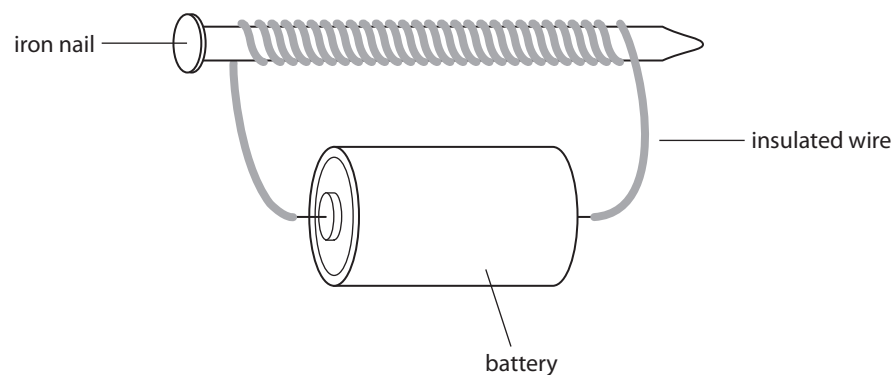
Explain your answer.

S032565

Which statement is true about the particles of a liquid compared to the particles of a gas?

- Ⓐ Particles of a liquid are slower and farther apart.
- Ⓑ Particles of a liquid are faster and farther apart.
- Ⓒ Particles of a liquid are slower and closer together.
- Ⓓ Particles of a liquid are faster and closer together.

S032403



The figure shows an iron nail with an insulated wire coiled around it. The wire is connected to a battery.

What will happen to the nail when current flows through the wire?

- Ⓐ The nail will melt.
- Ⓑ Electric current will flow through the nail.
- Ⓒ The nail will become a magnet.
- Ⓓ Nothing will happen to the nail.

S032273

S01_05

The weathering (gradual breaking down) of rocks can be caused by both physical and chemical processes. Write down one physical process and one chemical process. Explain how each can cause the weathering of rocks.

Physical Process:

Chemical Process:

S032019

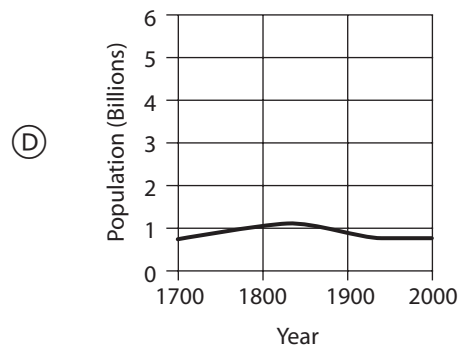
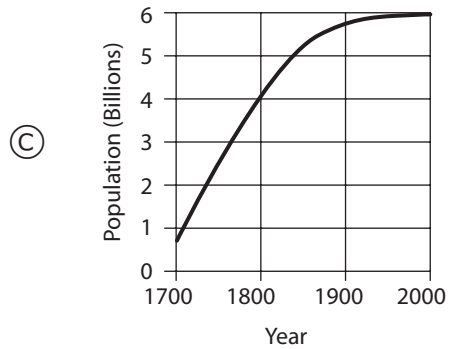
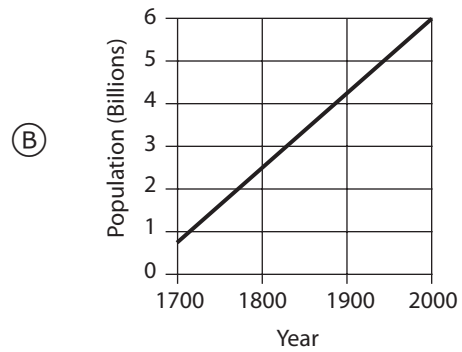
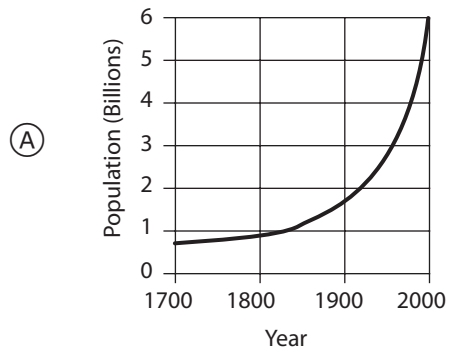
S01_06

In a rural area, there are many trees. The people living in the area decide to cut down the trees for wood.

Give one possible long-term effect of their decision on the environment.

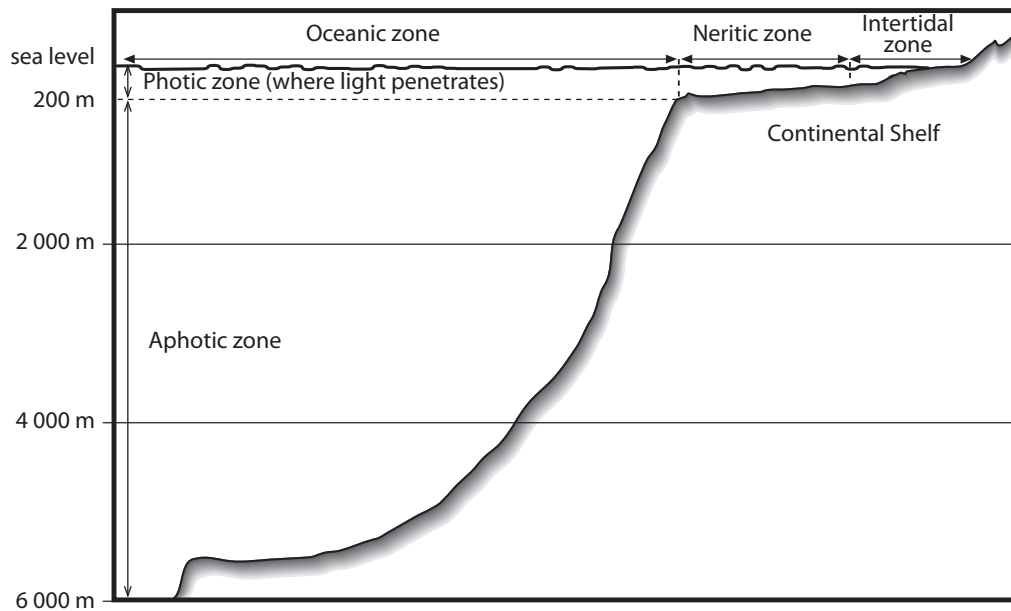
S032516

Which of the following graphs best shows how the human population of the world has changed over the last 300 years?



S032620

The following diagram shows a cross-section through an ocean. A number of organisms (plants and animals) live in the different regions of the ocean and depend on one another and on the Sun for survival.



SP32693

Questions for Life in the Oceans begin on the next page. ➔

Life in the Oceans (Continued)

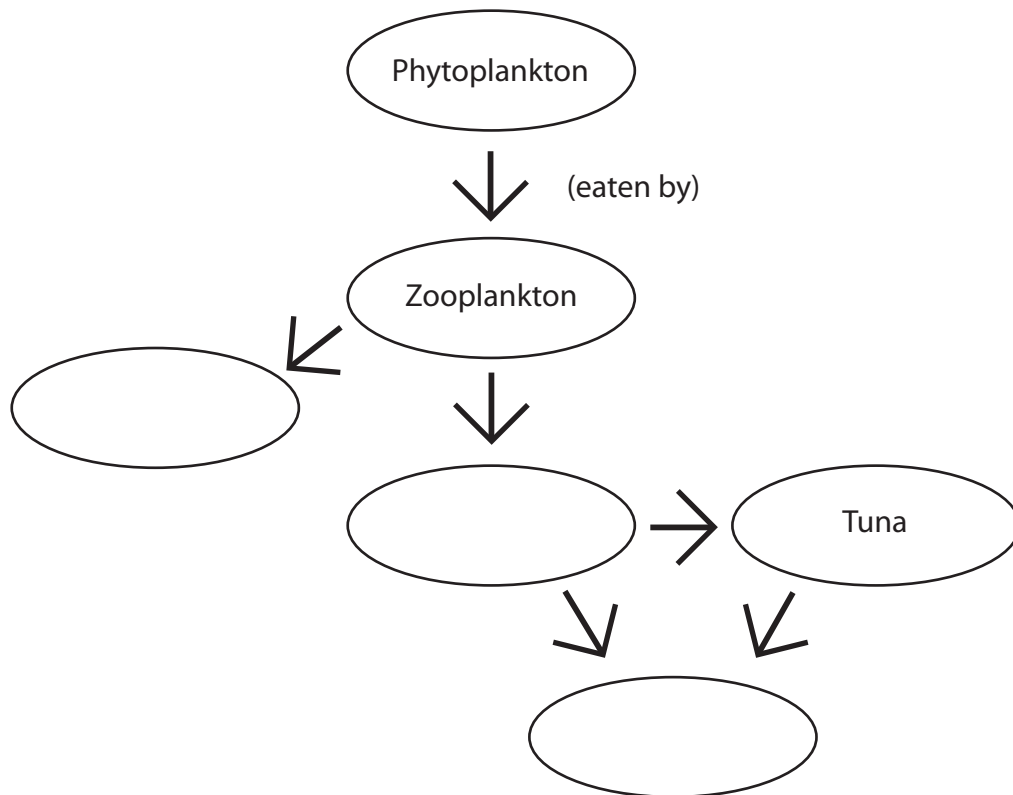
S01_08

Look at the list of organisms (plants and animals) below. They all live in the Neritic Zone.

Organism	Description
Phytoplankton	Microscopic plants that photosynthesize
Zooplankton	Microscopic animals that feed on phytoplankton
Tuna	Medium sized fish that feeds on small fish
Herring	Small fish that feeds on zooplankton
Shark	Large fish that feeds on other fish
Whale	Large mammal that feeds on zooplankton

- A. Complete the food web on the chart below to include all the organisms listed in the table. Write the name of one organism in each circle.

The information given about each organism will help you. Three organisms have been placed on the chart for you. The arrows show the direction that energy flows through the food web.



This Life in the Oceans Question continues on the next page.

S032693_1

Life in the Oceans (Continued)

S01_08

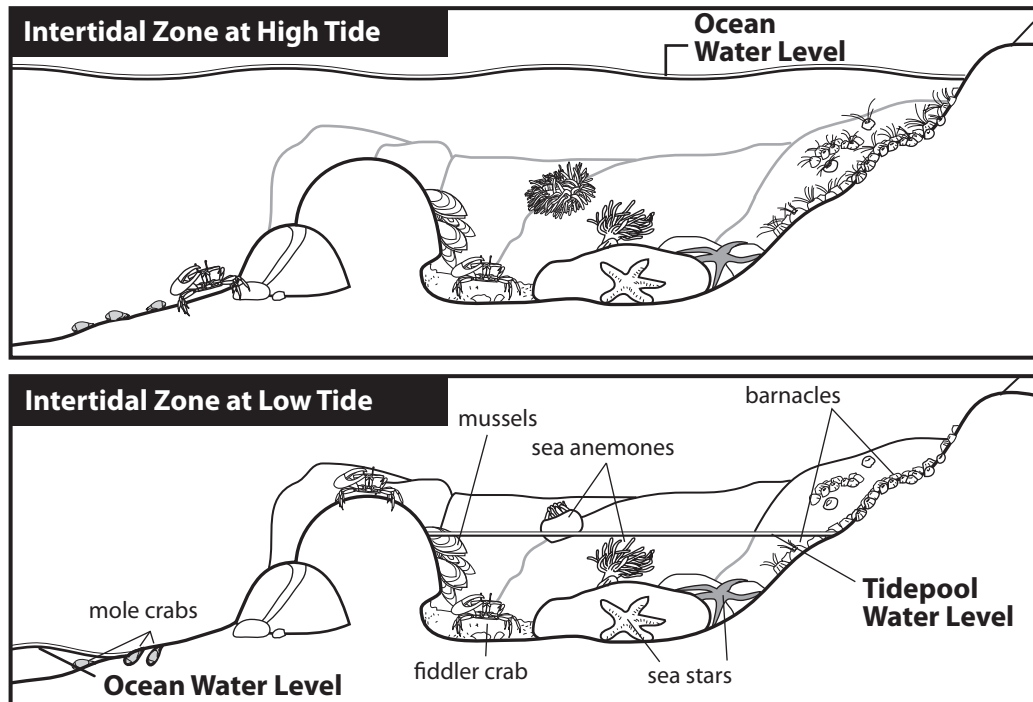
B. One year tuna becomes scarce because of over-fishing. State what is most likely to happen to the population of sharks and explain your answer.

S032693_2

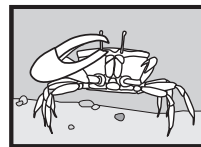
Questions for Life in the Oceans continue. 

Life in the Oceans (Continued)

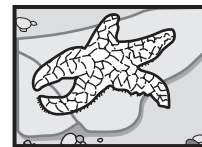
The intertidal zone is found along the ocean shore between the low-tide and high-tide lines. The diagrams below show a cross-section of an intertidal zone at high tide and at low tide and some of the organisms living there.



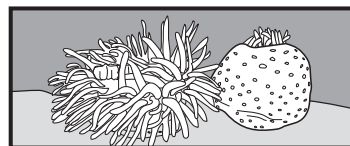
mole crabs



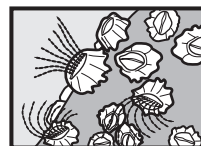
fiddler crab



sea star



sea anemones



barnacles



mussels

Questions for Life in the Oceans continue. ➔

Life in the Oceans (Continued)

S01_09

The organisms that live in the intertidal zone have special adaptations that allow them to survive the effects of tides.

Select an organism from the intertidal zone. Identify a physical feature or behavior of this organism. Explain how this feature or behavior helps the organism to survive low tide.

Name of organism: _____

Feature or behavior: _____

Explanation:

S032695

Questions for Life in the Oceans continue. 

Life in the Oceans (Continued)

S01_10

Fewer species of organisms (plants and animals) have been found living in the depths of the oceans than in the regions closer to the surface. Organisms living at the bottom of the ocean must be adapted to the conditions there.

Name two conditions that are found at the bottom of the ocean that make it difficult for most plants and animals to live there.

1.

2.

S032697

End of Life in the Oceans section.

