

Student: Jacques Cousteau

Score: 100

Rank: 97 %

Date Taken: 2/1/2012

Time: 00:01:26

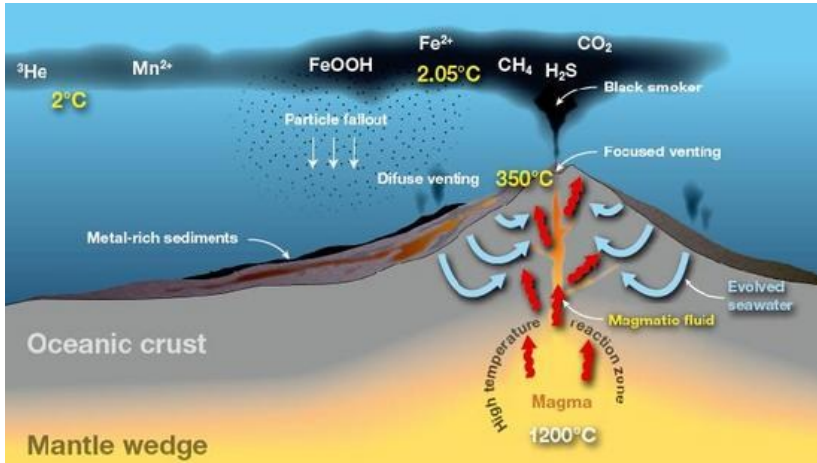
1. A hydrothermal vent.

Short Answer

Value: 10 pts

Score: 10 pts

Time: 00:00:08



Which organisms form the base of the food chain at hydrothermal vents due to their ability to convert carbon and nutrients into organic matter in the absence of sunlight?

Chemosynthetic Bacteria

Student response: Chemosynthetic Bacteria

2. The habitat of blue whales, tunas and swordfishes is best described as:

Multiple Choice

Value: 10 pts

Score: 10 pts

Time: 00:00:07

1. Benthic

2. Littoral

3. Estuarine

4. Pelagic

3. Intensive aquaculture of which of the following organisms has contributed to loss of mangroves around the world?

Multiple Choice

Value: 10 pts

Score: 10 pts


Time: 00:00:04

1. Tilapia

2. Cod

3. Shrimp

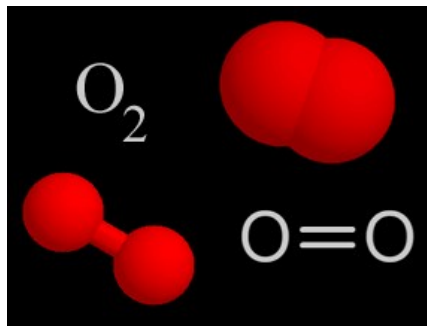
4. Salmon

4.  Northern elephant seals come ashore during the spring and summer to do what?
- Multiple Choice
Value: 10 pts
Score: 10 pts
Time: 00:00:05
- Mate
 - Give birth
 - Eat
 - Molt their fur
-
5. Lophelia (LO-fee-lee-ua) coral reefs in the North Atlantic are being primarily damaged by:
- Multiple Choice
Value: 10 pts
Score: 10 pts
Time: 00:00:21
- Rising temperature
 - Trawling
 - Cyanide poisoning
 - Pfiesteria
-
6. Seals have a variety of adaptations for deep dives. To avoid nitrogen narcosis, which adaptation is most helpful?
- Multiple Choice
Value: 10 pts
Score: 10 pts
Time: 00:00:05
- ATP production by fermentation rather than respiration
 - Exhaling at the start of the dive and collapsing the lungs
 - Reliance upon stored oxygen in blood and muscles
 - Re-routing blood flow to where it is most needed
-
7. Together, sodium and chloride alone comprise approximately what percent of the total salts in the ocean?
- Multiple Choice
Value: 10 pts
Score: 0 pts (-10)
Time: 00:00:04
- 100
 - 90
 - 50
 - 10

Instructor Comment:

Remember also potassium salts (potassium sulfate), and magnesium salts (magnesium chloride, magnesium sulfate, and magnesium bromide).

8. Name two sources of molecular oxygen on the surface of the ocean.



Short Answer
Value: 10 pts
Score: 10 pts
Time: 00:00:08

1. Transport of oxygen from the atmosphere to the ocean surface across the air-sea interface.
2. Photosynthesis in the photic zone.

Student response: 1. Transport of oxygen from the atmosphere to the ocean surface across the air-sea interface. 2. Photosynthesis in the photic zone.

Instructor Comment:
Perfect answer !

9. Which of the following are NOT impacted by the decreasing pH levels in ocean water, termed ocean acidification?

Multiple Choice
Value: 10 pts
Score: 10 pts
Time: 00:00:05

1. Growth rates of coral reef
2. Mollusk shells
3. Diatom shells
4. Shark's teeth

10. What chemical is the principle source of energy at many of Earth's hydrothermal vent systems?

Multiple Choice
Value: 10 pts
Score: 10 pts
Time: 00:00:03

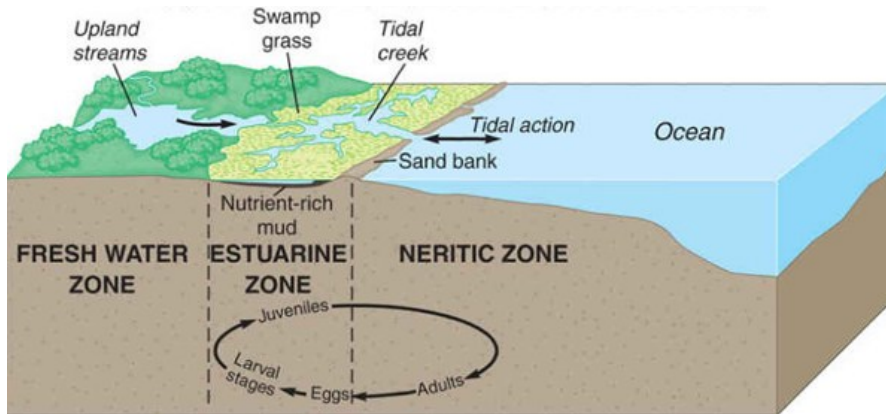
1. Oxygen
2. Carbon dioxide
3. Hydrogen Sulfide
4. Iron oxide

11. When traveling down the water column which will dissolve first?

- 1. A shell composed of aragonite
- 2. A shell composed of calcite
- 3. Neither will dissolve
- 4. A shell composed of calcium carbonate

Multiple Choice
Value: 10 pts
Score: 0 pts (-10)
Time: 00:00:06

12. Which of the following is a characteristic of an estuarine turbidity maximum?



Multiple Choice
Value: 10 pts
Score: 10 pts
Time: 00:00:10

- 1. Increased flocculation
- 2. Low suspended sediment concentrations
- 3. Kelvin waves
- 4. Temperature change