



CHEMISTRY QUESTIONS



EASY

Question Type: Tossup

Question Format: Multiple Choice

Category: Chemical

Question: _____

Together, sodium and chloride alone comprise approximately what percent of the total salts in the ocean?

Answer W: _____

100

Answer X: _____

90

Answer Y: _____

50

Answer Z: _____

10

Correct Answer: X



CHEMISTRY QUESTIONS



EASY

Question Type: Bonus

Question Format: Short Answer

Category: Chemical

Question:

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

Correct Answer:

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



CHEMISTRY QUESTIONS



EASY

Question Type: Tossup

Question Format: Multiple Choice

Category: Chemical

Question:

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

Answer W:

Growth rates of coral reefs

Answer X:

Mollusk shells

Answer Y:

Diatom shells

Answer Z:

Shark's teeth

Correct Answer: Y



CHEMISTRY QUESTIONS



MODERATE

Question Type: Tossup

Question Format: Multiple Choice

Category: Chemical

Question:

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

Answer W:

Oxygen

Answer X:

Carbon dioxide

Answer Y:

Hydrogen Sulfide

Answer Z:

Iron Oxide

Correct Answer: Y



CHEMISTRY QUESTIONS



MODERATE

Question Type: Bonus

Question Format: Multiple Choice

Category: Chemical

Question:

When traveling down the water column which will dissolve first?

Answer W:

A shell composed of aragonite

Answer X:

A shell composed of calcite

Answer Y:

Neither will dissolve

Answer Z:

A shell composed of calcium carbonate

Correct Answer: W



CHEMISTRY QUESTIONS



DIFFICULT

Question Type: Tossup

Question Format: Multiple Choice

Category: Chemical

Question:

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

Answer W:

Increased flocculation

Answer X:

Low suspended sediment concentrations

Answer Y:

Kelvin waves

Answer Z:

Temperature change

Correct Answer: W