

Praxis 5005 Cheat Sheet

Section: 5005 Elementary Education Science Exams • Total Questions: 10 • Format: Verified Q&A

1. A piece of paper inside a sealed steel container is ignited and allowed to burn. Which of the following best predicts what will happen to the mass of the sealed container and its contents after the paper burns?

- (A) The mass will not change, because atoms will be neither created nor destroyed inside the sealed container.
 - (B) The mass will decrease, because the burning process will convert some of the solid paper into a gas.
 - (C) The mass will increase, because the paper will combine with oxygen inside the sealed container and produce ash.
 - (D) The mass could either increase or decrease, depending on how much of the paper burns and how much heat is produced.
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2. How many mL of 0.1 M NaOH are needed to completely neutralize 10 mL of 0.2 M H₂SO₄?

- (A) 5 mL
 - (B) 10 mL
 - (C) 20 mL
 - (D) 40 mL
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3. Which of the following is the most abundant gas in Earth's atmosphere?

- (A) Hydrogen
 - (B) Nitrogen
 - (C) Helium
 - (D) Methane
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4. Which THREE of the following processes depend directly on energy from the Sun?

- (A) Seafloor spreading
 - (B) The water cycle
 - (C) Photosynthesis
 - (D) Atmospheric circulation
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5. Based on the food web shown, which of the following is true about the feeding relationships?

- (A) Bivalves have no natural predators in the Chesapeake Bay ecosystem.
 - (B) Wading birds are herbivores that eat aquatic vegetation.
 - (C) Phytoplankton are producers that convert light energy into organic matter.
 - (D) Sea ducks are primary consumers that eat only bald eagles.
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6. Which of the following is the process that occurs when an acid is mixed with a base?

- (A) Combustion
 - (B) Condensation
 - (C) Neutralization
 - (D) Vaporization
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7. Which of the following organisms is an invertebrate?

- (A) Dog
 - (B) Fish
 - (C) Snake
 - (D) Earthworm
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8. Which of the following best explains the observation that currents of cold water typically flow under currents of warm water?

- (A) Cold water is less chemically reactive than warm water.
 - (B) Cold water is denser than warm water.
 - (C) Cold water contains fewer living organisms than warm water.
 - (D) Cold water can hold more dissolved oxygen than warm water.
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9. In an experiment, a student observes an object as it travels in one direction along a straight path. Which TWO of the following measurements does the student need to calculate the average speed of the object?

- (A) The object's mass
 - (B) The distance traveled
 - (C) The elapsed time
 - (D) The environmental temperature
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10. Plants that have large, waxy leaves and shallow root systems and that grow to extreme heights to compete for sunlight are most likely to be found in which of the following biomes?

- (A)** Desert
- (B)** Tropical rain forest
- (C)** Tundra
- (D)** Savanna grassland