

1. Which is an example that shows that water and land food webs can be connected?
- A seagulls eating fish
 - B sharks eating fish
 - C clams eating plankton

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2. What is the *best* way to map the ocean floor?
- A using telescopes
 - B taking water samples
 - C using sonar

3. Which is **most** important for a community to consider if it decides to add more businesses, homes, and schools to the area?
- A local weather conditions
 - B local water supply
 - C local bird population

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4. Why are elements considered the building blocks of all compounds?
- A Elements can change into liquids or gases.
 - B Elements can change into smaller elements.
 - C Elements can combine to create different substances.

5. What does cigarette smoke sometimes cause?

- A kidney disease
- B cancer
- C autoimmune disease

6. What is *most* responsible for causing diabetes?

- A too much or too little sugar in the blood
- B bacteria growing in the liver
- C parasites growing in the stomach

7. Why do scientists study fossils?
- A to understand how volcanoes are formed
 - B to understand life on Earth as it was millions of years ago
 - C to understand when mountains were created

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8. What is one use of a satellite?
- A to predict weather
 - B to find the location of all animals on Earth
 - C to measure the amount of water in a lake

9. What is true about all living cells?
- A They need sunlight for energy.
 - B They can make their own food.
 - C They grow and divide to make more cells.

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10. Which is **best** used to treat bacterial diseases?
- A antibiotics
 - B aspirin
 - C water

End of Set

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Answers for NCEXTEND2 EOG Grade 8 Science Sample Set

- 1. Objective 3.04**
Describe how terrestrial and aquatic food webs are interconnected.
Thinking Skill: Analyzing **Correct Answer:** A
- 2. Objective 3.06**
Evaluate technologies and information systems used to monitor the hydrosphere.
Thinking Skill: Knowledge **Correct Answer:** C
- 3. Objective 3.07**
Describe how humans affect the quality of water: Point and non-point sources of water pollution in North Carolina.; Possible effects of excess nutrients in North Carolina waters.; Economic trade-offs.; Local water issues.
Thinking Skill: Evaluating **Correct Answer:** B
- 4. Objective 4.02**
Evaluate evidence that elements combine in a multitude of ways to produce compounds that account for all living and nonliving substances.
Thinking Skill: Applying **Correct Answer:** C
- 5. Objective 4.08**
Identify evidence that some chemicals may contribute to human health conditions including: Cancer.; Autoimmune disease.; Birth defects.; Heart disease.; Diabetes.; Learning and behavioral disorders.; Kidney disease.; Asthma.
Thinking Skill: Knowledge **Correct Answer:** B
- 6. Objective 4.08**
Identify evidence that some chemicals may contribute to human health conditions including: Cancer.; Autoimmune disease.; Birth defects.; Heart disease.; Diabetes.; Learning and behavioral disorders.; Kidney disease.; Asthma.
Thinking Skill: Knowledge **Correct Answer:** A
- 7. Objective 5.02**
Correlate evolutionary theories and processes: Biological.; Geological.; Technological.
Thinking Skill: Analyzing **Correct Answer:** B
- 8. Objective 5.04**
Analyze satellite imagery as a method to monitor Earth from space: Spectral analysis.; Reflectance curves.
Thinking Skill: Applying **Correct Answer:** A

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9. Objective 6.01

Describe cell theory: All living things are composed of cells.; Cells provide structure and carry on major functions to sustain life.; Some organisms are single cell; other organisms, including humans, are multi-cellular.; Cell function is similar in all living things.

Thinking Skill: Organizing **Correct Answer:** C

10. Objective 7.04

Evaluate the human attempt to reduce the risk of and treatments for microbial infections including: Solutions with anti-microbial properties.; Antibiotic treatment.; Research.

Thinking Skill: Analyzing **Correct Answer:** A