

1. How do desert animals get the water that they need to live?
 - A They get water from the food they eat.
 - B They get water from streams and rivers.
 - C They store water underground when it rains.
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2. How do decomposers help an ecosystem?
 - A They add water to the soil.
 - B They make food for animals to eat.
 - C They cause dead plants and animals to become part of the soil.

3. How does light, temperature, and soil composition influence **most** land ecosystems?
- A They cause the ecosystem to become extinct.
 - B They determine the types of plants and animals in the ecosystem.
 - C They cause water in the ecosystem to become polluted.

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4. Which **best** describes a landslide?
- A erosion caused by gravity
 - B erosion caused by wind
 - C erosion caused by a river

5. Besides providing Earth with fresh water, how else is the water cycle important to Earth?
- A It keeps water from freezing in the ocean.
 - B It helps prevent acid rain in the mountains.
 - C It helps change the shape of mountains and canyons.

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6. When will clouds *most likely* form?
- A when air becomes dry
 - B when condensation occurs
 - C when runoff causes flooding

7. What has the **most** effect on the speed of wind?
- A humidity
 - B temperature
 - C air pressure

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8. A car travels 200 km in 2 hours. If $\text{speed} = \frac{\text{distance}}{\text{time}}$, what is the average speed of the car?
- A 100 km/hr
 - B 200 km/hr
 - C 400 km/hr

9. Two dogs are pulling on the same shoe, but the shoe stays in the same place. What is happening?
- A One dog is pulling with a greater force.
 - B Both dogs are pulling with the same force.
 - C Both dogs are pulling the shoe in the same direction.

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10. Three students each build a model car to race down an inclined plane. For the race to be fair, what must be true about each car?
- A They all should be the same weight.
 - B They all should have the same size tires.
 - C They all should be the same length.

End of Science Sample Items

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Answer Key for NCEXTEND2 EOG Grade 5 Science Sample Items

1. Objective 1.01

Describe and compare several common ecosystems (communities of organisms and their interaction with the environment).

Thinking Skill: Knowledge **Correct Answer:** A

2. Objective 1.02

Identify and analyze the functions of organisms within the population of the ecosystem:

Producers.

Consumers.

Decomposers.

Thinking Skill: Knowledge **Correct Answer:** C

3. Objective 1.04

Discuss and determine the role of light, temperature, and soil composition in an ecosystem's capacity to support life.

Thinking Skill: Analyzing **Correct Answer:** B

4. Objective 2.01

Identify and analyze forces that cause change in landforms over time including:

Water and Ice.

Wind.

Gravity.

Thinking Skill: Knowledge **Correct Answer:** A

5. Objective 2.02

Investigate and discuss the role of the water cycle and how movement of water over and through the landscape helps shape land forms.

Thinking Skill: Analyzing **Correct Answer:** C

6. Objective 3.01

Investigate the water cycle including the processes of:

Evaporation.

Condensation.

Precipitation.

Run-off.

Thinking Skill: Analyzing **Correct Answer:** B

Answer Key for NCEXTEND2 EOG Grade 5 Science Sample Items

7. Objective 3.02

Discuss and determine how the following are affected by predictable patterns of weather:

Temperature.

Wind direction and speed.

Precipitation.

Cloud cover.

Air pressure.

Thinking Skill: Knowledge

Correct Answer: C

8. Objective 4.01

Determine the motion of an object by following and measuring its position over time.

Thinking Skill: Analyzing

Correct Answer: A

9. Objective 4.02

Evaluate how pushing or pulling forces can change the position and motion of an object.

Thinking Skill: Analyzing

Correct Answer: B

10. Objective 4.06

Build and use a model to solve a mechanical design problem.

Devise a test for the model.

Evaluate the results of test.

Thinking Skill: Generating

Correct Answer: A