



CARBON DIOXIDE- OXYGEN CYCLE

Cycle (sī kəl) a series of events that happens over and over in the same order

Using SCIENCE Words

1. Which of the following is an example of a cycle?
 - A. the sun rising and setting every day
 - B. baking a cake
 - C. going for a walk

- 1 Life on Earth is a balance of give and take between plants and animals. This cycle of giving and taking is necessary for life on Earth.
- 2 A **cycle** is a series of events that happens over and over in the same order. One of Earth's cycles is called the carbon dioxide-oxygen cycle. This cycle makes it possible for plants and animals to get what they need to stay alive.
2. A cycle is a _____.
- habitat
 - series of events
 - population
- 3 Animals must have oxygen to live. **Oxygen** is an element. Oxygen is an important gas molecule in the air we breathe. Land animals breathe air. Their bodies have structures that take oxygen from air. The cells of animals' bodies need oxygen. Without oxygen, animals can't live.
3. Which statement is **not** true?
- Some animals breathe air.
 - Oxygen is not part of the air we breathe.
 - Animal cells need oxygen.
- 4 Oxygen is also in water. Most animals that live in water have gills. Gills take oxygen from water. Water animals need oxygen to survive.
- 5 Some animals living in water don't have gills. They have lungs. They must keep rising to the water's surface to breathe air.
4. Which statement is true?
- Some water animals have lungs.
 - Lungs take oxygen from water.
 - Water animals do not need oxygen.
- 6 Where does oxygen come from? Plants produce oxygen when they make food. They give off some of it into the air or water. The oxygen in air comes from plants that live on land. The oxygen in water comes from plants and plankton that live in water.
- 7 Land animals get oxygen from the air when they breathe in, or inhale. When they breathe out, or exhale, they release carbon dioxide into the air. **Carbon dioxide** is a colorless, odorless gas made of carbon and oxygen atoms. Water animals release carbon dioxide into the water.

5. Water does **not** contain _____.
a. oxygen
b. air
c. carbon dioxide
- 8 Plants need carbon dioxide. They need it to make food. If plants can't make food, they die.
- 9 Plants and animals need each other. Plants provide oxygen for animals. Animals provide carbon dioxide for plants. Life on Earth depends on this exchange between plants and animals.
6. Plants and animals need _____.
a. oxygen
b. carbon dioxide
c. each other

LEARN ABOUT WORDS

Harder and *more awful* are the comparative degrees of the adjectives *hard* and *awful*. Most adjectives of one syllable form the comparative by taking the *-er* ending. Many adjectives of two or more syllables form the comparative by combining with the word *more*. Write the *one or two words* that will form the comparative degree of each of the following adjectives in **bold type**.

- | | |
|---------------------|---|
| 7. dark | Brown is a _____ color than yellow. |
| 8. narrow | A stream is _____ than a river. |
| 9. straight | This road is _____ than that one. |
| 10. tall | The apple tree is _____ than the cherry tree. |
| 11. sweet | An orange is _____ than a lemon. |
| 12. cold | Alaska has a _____ climate than Georgia. |
| 13. colorful | The butterfly fish is _____ than a trout. |
| 14. serious | Malaria is a _____ disease than chicken pox. |
| 15. slow | A turtle is _____ than a rabbit. |
| 16. warm | Summer is _____ than spring. |

THINK ABOUT IT

Look at the diagram. It shows a small water ecosystem. Use the diagram to answer the question.



17. Which number shows a part of the ecosystem that does **not** contribute to the carbon dioxide-oxygen cycle?
- A. 1
 - B. 2
 - C. 3
 - D. 4

Using SCIENCE Words

1. A

Comprehension

2. b
3. b
4. a
5. b
6. c

Learn About Words

7. darker
8. more narrow
9. straighter
10. taller
11. sweeter
12. colder
13. more colorful
14. more serious
15. slower
16. warmer

Think About It

17. A

Writing About Science

Write a paragraph explaining why both plants and animals are important to all life on Earth.