

# Biogeochemical Cycles Worksheet

## Nitrogen Cycle

Drawn around the following using the words in the word bank.

|                |                 |                   |              |               |         |
|----------------|-----------------|-------------------|--------------|---------------|---------|
| ammonification | denitrification | nitrogen fixation | assimilation | decomposition | nitrate |
|----------------|-----------------|-------------------|--------------|---------------|---------|

1. Our atmosphere is \_\_\_\_\_ nitrogen gas.
2. Denitrification is the removal of the nitrogen from the soil \_\_\_\_\_.
3. Nitrification is the process by which soil bacteria convert ammonia and nitrite into nitrate, and the nitrate is then taken up by plants \_\_\_\_\_.
4. Nitrate is the most common form of nitrogen in the soil \_\_\_\_\_.
5. Denitrification is the process by which soil bacteria convert nitrate into ammonia \_\_\_\_\_.
6. \_\_\_\_\_ bacteria in the soil convert ammonia into nitrite and then into nitrate, which is then taken up by plants \_\_\_\_\_.
7. In the soil, the process of nitrification is carried out by \_\_\_\_\_ bacteria, which convert ammonia into nitrite and then into nitrate \_\_\_\_\_.
8. Nitrate is the most common form of nitrogen in the soil \_\_\_\_\_.

## Carbon Cycle

Drawn around the following using the words in the word bank.

|                |             |               |            |              |
|----------------|-------------|---------------|------------|--------------|
| photosynthesis | respiration | decomposition | combustion | assimilation |
|----------------|-------------|---------------|------------|--------------|

1. Plants assimilate the carbon of \_\_\_\_\_ in the soil \_\_\_\_\_.
2. Photosynthesis is the process by which plants convert \_\_\_\_\_ and water into glucose \_\_\_\_\_.
3. The \_\_\_\_\_ is the process by which plants convert glucose into energy \_\_\_\_\_.
4. In the soil, the process of nitrification is carried out by \_\_\_\_\_ bacteria, which convert ammonia into nitrite and then into nitrate \_\_\_\_\_.
5. Denitrification is the process by which soil bacteria convert nitrate into ammonia \_\_\_\_\_.
6. Nitrate is the most common form of nitrogen in the soil \_\_\_\_\_.

# Biogeochemical Cycles Study Guide Answers

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