

2.2 Nutrient Cycles in Ecosystems

E D E U T R O P H I C A T I O N L V E Q O X O J X
Z Y X N P R O T E I N M C P H O S P H O R O U S T
W Z A N Z O L W W E A T H E R I N G N O C S I Y K
L O L I F T Y U H D R O P A I L E A U K V T U G E
I N N T A I M T P Q X Z T A X Y C Z T N S O J I O
G U I R J O X Y V L X X C J V F A D R B E R Z P K
H T T I B V L A L K I J O P O Z R V I A D E T H M
T R R F N C I Q T C C F U M K C B C E C I S Y O F
N I O I G M V Y M I D O T P U X O F N T M D T S B
I E G C Z B F R M W O K G W T H N W T E E J F P U
N N E A Y O C A M J M N Q F N K A E S R N I M H B
G T N T N N Z M W O G U E B G K T G K I T C Z O Z
L C D I F E R H E O B Q Y L U D E U Q A A Y U R G
W Y M O I S S J G R A T M O S P H E R E T S W U B
I C G N C E L L U L A R R E S P I R A T I O N S D
Q L A W Z E M L E A C H I N G U V T K O O F S P C
R E S H L I M E S T O N E F E T M Y U V N C H L P

1. Chemicals that are required for plant and animal growth and other life processes.
2. Nutrients accumulated for short or long periods of time in Earth's atmosphere, oceans, and land masses.
3. A continuous flow of nutrients in and out of stores.
4. One of five chemical elements (also known as chemical nutrients) that limit the amount and types of life possible in an ecosystem, it enters the environment from sedimentary rock.
5. Process that contributes to the formation of sedimentary rock
6. A combination of carbon and oxygen that is dissolved in ocean water.
7. In time, the carbonate is changed into _____, which is a sedimentary rock.
8. The process in which both plants and animals release carbon dioxide back into the atmosphere by converting carbohydrates and oxygen into carbon dioxide and water.
9. Nitrogen is an important component of DNA and _____.
10. The largest store of nitrogen is the _____.
11. Nitrogen _____ is the process in which nitrogen gas is converted into compounds that contain nitrate or ammonium.
12. Atmospheric nitrogen fixation occurs when nitrogen gas converted into nitrate and other nitrogen-containing compounds by _____.
13. Nitrogen fixation in the soil occurs when nitrogen gas converted into ammonium by _____ during the decomposition process.
14. Process in which ammonium is converted into nitrate.
15. Millions of tonnes of _____ are added to the atmosphere annually in the form of nitrogen oxide and nitrogen dioxide as a result of fossil fuel combustion in power plants and processes such as sewage treatment
16. The removal by water of substances that have dissolved in moist soil.
17. _____ is the process by which excess nutrients result in increased plant production and decay.
18. In plants, _____ contributes to root development, stem strength, and seed production.
19. In humans, a large amount of phosphorus is found in _____.
20. Unlike carbon, oxygen, and nitrogen, phosphorus is not stored in the atmosphere as a _____.
21. The process of breaking down rock into smaller fragments.
22. Geologic _____ is the process of mountain building in which Earth's crust folds and deeply buried rock layers rise and are exposed.