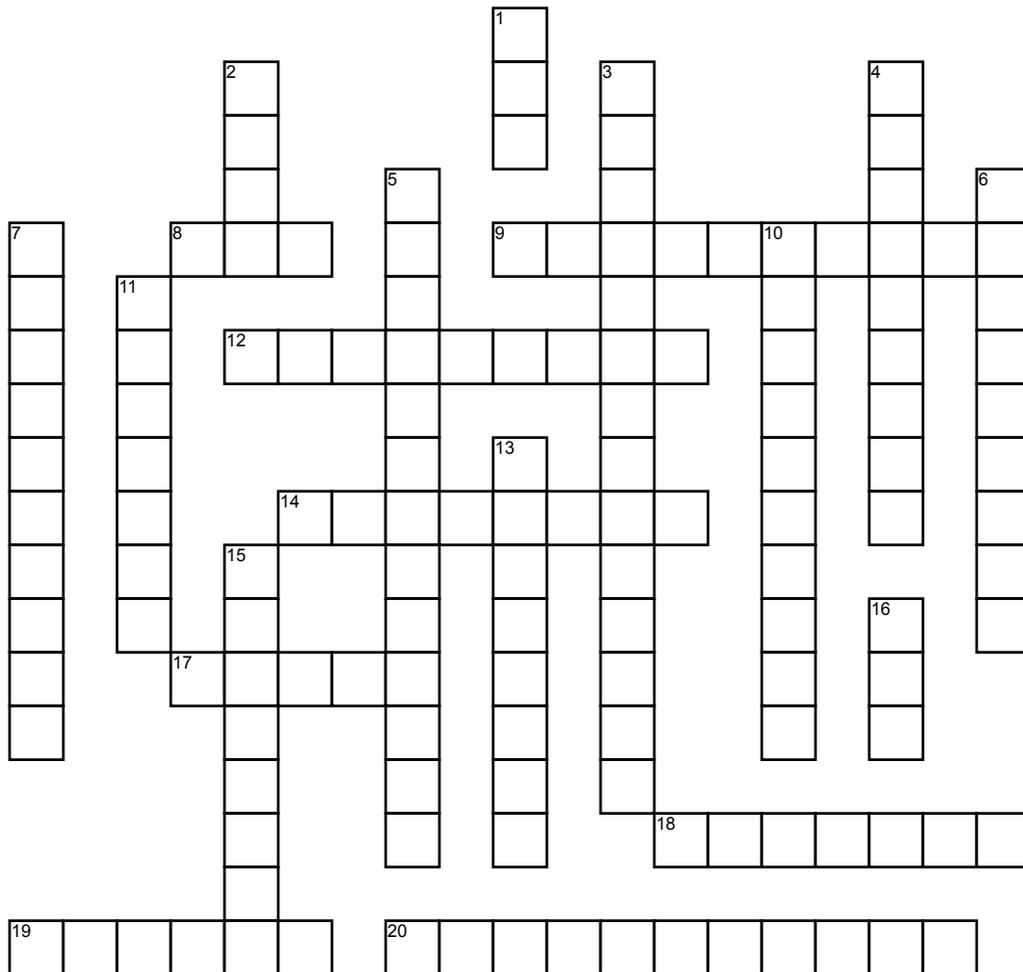


Unit 3: Cellular Energy



Across

- 8. what is adenosine diphosphate abbreviated?
- 9. During which phase is the DNA duplicated?
- 12. In which phase dose a new nuclear membrane develop?
- 14. In a chemical reaction, substances (elements and/or compounds) called reactants are changed into other substances called.
- 17. Which substance is both entering and leaving the leaf?
- 18. What type of respiration that requires oxygen?

19. During strenuous exercise, what substance becomes an end product of respiration in muscle cells?

20. In what cell organelle dose photosynthesis occur?

Down

- 1. What are the products of photosynthesis?
- 2. How do human obtain glucose?
- 3. What is the process called when converting light energy to chemical energy?
- 4. A cell has a single line of chromosomes in what phase?
- 5. In what cell organelle dose cellular respiration occur?

6. In a chemical reaction, substances (elements and/or compounds) are called.

7. An organic compound with the formula $CH_3CHCOOH$.

10. what organelle can do photosynthesis?

11. What is the main source of the energy that is released during cellular respiration?

13. How do living things obtain the energy to carry out their life functions?

15. In which phase are chromatids pulled apart?

16. What is the purpose of each of the molecules in the equation?

Word Bank

- | | | | | |
|-------------|---------------|-------------|-------------|----------------|
| Reactants | Metaphase | products | glucose | Photosynthesis |
| food | Telophase | plant cells | water | ATP |
| Chloroplast | ADP | aerobic | Anaphase | Air |
| oxygen | mitochondrion | sunlight | lactic acid | Interphase |