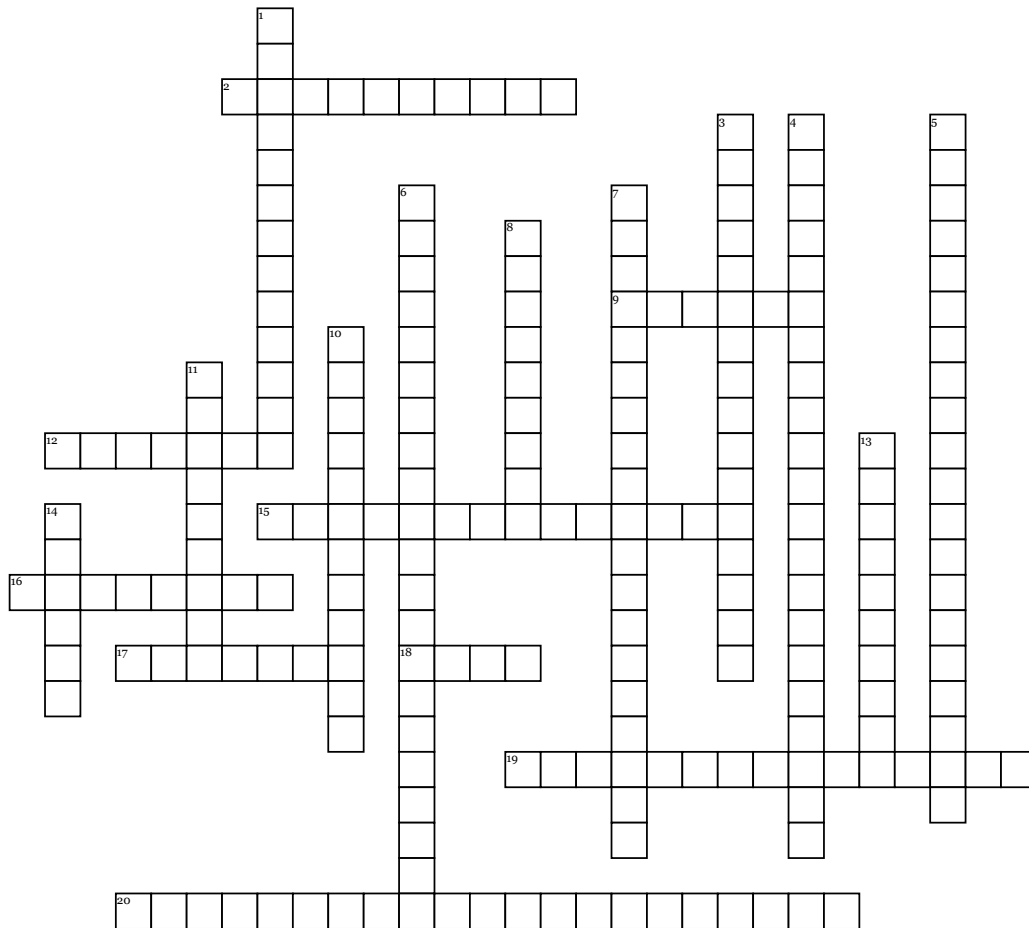


Cell Processes



Across

- 2. Also known as the citric acid cycle.
- 9. Where does photosynthesis occur in a plant?
- 12. The inner membrane with many folds.
- 15. Makes the glucose that is used in cellular respiration to make ATP.
- 16. Three-carbon product of glycolysis.
- 17. The diffusion of water molecules across a membrane.
- 18. The smallest unit of life.
- 19. A substance moves against the concentration gradient (uses energy from cells).

Word Bank

- Carbon Dioxide
- $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O$
- Anaerobic Respiration
- Cell
- Diffusion
- Oxygen
- Osmosis

- 20. What is the chemical formula for photosynthesis?

Down

- 1. During cellular respiration, glucose, in the presence of oxygen, is converted into _____ and water.
- 3. Substances cross the cell membrane without the cell providing energy.
- 4. ATP
- 5. It happens in the cytoplasm where glycolysis releases energy from glucose and fermentation recycles NADH back to NAD+.
- 6. What is the chemical formula for cellular respiration?

- $6CO_2 + 6H_2O \rightarrow C_6H_{12}O_6 + 6O_2$
- Pyruvate
- Leaves
- Cytoplasm
- Active Transport
- Passive Transport
- Cellular Respiration

- 7. The process of extracting energy in the form of ATP from the glucose in the food you eat.

- 8. A substance moves through a membrane from an area of high concentration to an area of low concentration.
- 10. Where does photosynthesis occur in a cell?
- 11. The glycolysis process occurs in the _____ of the cell.
- 13. A series of reactions that extract energy from glucose by splitting it into two three-carbon molecules called pyruvates.
- 14. _____ and glucose are both reactants of cellular respiration.

- Photosynthesis
- Adenosine Triphosphate
- Krebs Cycle
- Glycolysis
- Cristae
- Chloroplasts