

By Cheryl Massengale

Review over Glucose Metabolism

Match each of the following occurrences to the correct part of the glucose metabolism process. If more than one answer is correct, write all letters in the blank.

- A. Glycolysis
- B. Fermentation
- C. Cellular Respiration (aerobic)
- D. Krebs Cycle
- E. Electron Transport Chain

- _____ 1. Most of the ATP is made
- _____ 2. Occurs only under anaerobic conditions
- _____ 3. Occurs only under aerobic conditions
- _____ 4. Uses phosphorylation
- _____ 5. Occurs under aerobic and anaerobic conditions
- _____ 6. Can occur under anaerobic conditions
- _____ 7. Glucose splits into 2, Pyruvic acid molecules
- _____ 8. Occurs in the mitochondria
- _____ 9. PGAL forms
- _____ 10. Lactic acid forms
- _____ 11. Occurs in the cytoplasm
- _____ 12. Produces CO₂ and ATP
- _____ 13. Requires some ATP to get started
- _____ 14. Ethanol produced
- _____ 15. Acetyl-CoA involved
- _____ 16. Citric acid cycle
- _____ 17. CO₂ not a byproduct
- _____ 18. H₂O is a byproduct
- _____ 19. Nets 2 ATP
- _____ 20. Completes glucose metabolism