

## VIDEO GUIDE FOR BOZEMAN BIOLOGY CELLULAR RESPIRATION

1. Cellular respiration takes organic compounds and converts them to \_\_\_\_\_, \_\_\_\_\_, and \_\_\_\_\_
2. Do plants do cellular respiration?
3. Give the equation for cellular respiration
4. Why do we think mitochondria used to be independently living bacteria?
5. The first step in cellular respiration is \_\_\_\_\_, the second step is the \_\_\_\_\_, and the third step is \_\_\_\_\_
6. Glycolysis takes a glucose and make \_\_\_\_\_ 3C pyruvates, \_\_\_\_\_ ATP and \_\_\_\_\_ NADH
7. Pyruvate dehydrogenase takes pyruvate and turns it into \_\_\_\_\_ and gives off \_\_\_\_\_
8. In the Krebs cycle, AcetylCoA become \_\_\_\_\_ carbon dioxides, \_\_\_\_\_ NADHs and \_\_\_\_\_ ATP
9. NADH and FADH<sub>2</sub> go to the \_\_\_\_\_
10. Energy from electrons is used to pump protons to the \_\_\_\_\_ space
11. The oxygen you breathe is the last electron acceptor and makes \_\_\_\_\_
12. The electron transport chain makes approximately \_\_\_\_\_ ATP
13. The protons in the intermembrane space flow back through \_\_\_\_\_ to the matrix and produce \_\_\_\_\_
14. What happens in lactic acid fermentation?
15. What happens in alcoholic fermentation?