**Cell Processes Analysis**  Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What are the three products of aerobic respiration? Anaerobic in plants? Anaerobic in humans?
2. Explain the differences between aerobic respiration and fermentation in terms of energy.
3. Where does lactic acid fermentation take place? Alcoholic fermentation?
4. What is the acid produced during anaerobic respiration?
5. Respiration produces energy in the form of \_\_\_\_\_\_\_\_\_.
6. Explain the relationship between heart rate and respiration.
7. Define aerobic respiration.
8. Define anaerobic respiration.
9. What reactant is always involved in respiration?
10. How can an exercise be both aerobic and anaerobic?
11. Why are aerobic exercises better for your heart?

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1. What are the formulas for respiration? (Hint: there are 3.)
2. What is the relationship between aerobic respiration and photosynthesis?
3. What is passive transport? What are the two forms we discussed?
4. Does active transport move from high🡪low concentration, or low🡪high?
5. What are the 3 forms of tonicity? Which way does water move in each?
6. What tonicity is best for animals? For plants?
7. Which tonicity is bad for all cells? Why?
8. If a cell with 12% saline is placed in a 32% saline solution, what is the tonicity? Draw the cell to show your work.
9. A cell with 12% water is placed in a 32% water solution. What is the tonicity? Draw the cell to show your work.