

## Cellular respiration review questions - Due \_\_\_\_\_

1. Describe the goals, basic reactants and location of glycolysis.
2. **Outline** the steps that happen after glycolysis when there IS oxygen present in that yeast cell.
3. Describe the Krebs cycle. (Where it happens, the reactants needed for it to occur and the products and where they go).
4. Describe the Electron Transport Chain in OCR, (include: what is needed for it to occur, where does it occur in a eukaryotic cell, what happens, what are the products, where do they go?)
5. Diagram/outline/create a concept map for the process of oxidative cellular respiration, starting with a molecule of glucose through the complete breakdown into the final products of CO<sub>2</sub> and H<sub>2</sub>O.
6. Describe the steps that occur after glycolysis in a typical yeast cell when there is NO oxygen present.
7. Do the same as in #6 for a human muscle cell. (What happens to the end product of that process?)

## Photosynthesis review questions – Due \_\_\_\_\_

1. Sketch a diagram of the complete photosynthesis process from the beginning to the final products. (start with what, major steps, where occurs, molecules involved)
2. What are the necessary starting reactants in just the light reactions? What are the end products of these rxns?
3. What are two types of photophosphorylation and describe the major differences?
4. Where, specifically, in the chloroplasts do the light reactions occur?
5. What are the reactants, where are they located and what are the end products of the “light –independent rxns”?
6. Summarize the Calvin-Benson cycle.
7. Describe the chemiosmotic link between photosynthesis and cellular respiration. Where it happens in each process and how it works.
8. What are C<sub>4</sub> and CAM plants and explain why they do what they do?