1. Where does CR take place?

**Review Packet: Cellular Respiration**

1. Where does glycolysis take place?
2. Where does the Krebs cycle take place?
3. Where does oxidative phosphorylation take place?
4. Where does fermentation take place?
5. What is the equation for CR?
6. How much energy is captured as ATP? What is the rest released as? What % is that?
7. What is a calorie? What is a kilocalorie?
8. I have 2000 calories. How many liters of water can I raise one degree Celsius?
9. What is a redox reaction?
   1. What is oxidation?
   2. What is reduction?
10. Describe glycolysis.
11. Draw a picture of something that represents glycolysis that has nothing to do with science.
12. What goes into glycolysis?
13. What comes out of glycolysis?
14. What are the two main pathways that can be followed after glycolysis? What is the main difference between them?
15. What happens after glycolysis if there is no oxygen?
16. Describe the two types of fermentation.
17. What types of cells does lactic acid fermentation happen in?
18. What types of cells does alcoholic fermentation happen in?
    1. What is yeast?
19. What do we use alcoholic fermentation to create?
20. Describe the pre Krebs cycle.
    1. What goes into the pre Krebs cycle?
    2. What comes out of the pre Krebs cycle?
    3. What is released as a byproduct from the pre Krebs cycle?
21. Describe the Krebs cycle.
    1. What goes into the Krebs cycle?
    2. What comes out of the Krebs cycle?
    3. What is another name for the Krebs cycle?
22. What is the first compound that is created in the Krebs cycle?
23. Electrons are stored and carried in what two molecules? Where are these molecules brought?
24. What is oxidative phosphorylation?
    1. What goes into OP?
    2. What comes out of OP?
    3. Describe the movement of electrons in OP
    4. Describe the movement of H+ ions (protons) in OP
25. What is really responsible for the creation of ATP in OP? What is that step called?
26. Where is the concentration gradient of H+ ions built up?
27. What is ATP Synthase?
28. Is ATP synthase something that uses substrate level phosphorylation? If not, what steps do?

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| **Glycolysis** | **Pre Citric Acid** | **Citric Acid** | **Oxidative Phosphorylation** | **Totals** |
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1. Draw a picture of glucose.