Cell Energetics Unit Reading Guide (LIFE 9TH Edition)

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|  | **TOPIC** | **PAGES** | **NOTES** |
|  |  | 9.1 How does glucose oxidation release chemical energy? | 168-172 (4 pages) | Lab: Cell Respiration |
|  |   | 9.2 What are the aerobic pathways of glucose metabolism? | 172-177 (5) |  |
|  |  | 9.3 How does oxidative phosphorylation form ATP? | 177-181 (5) |  |
|  |  | 9.4 How is energy harvested in the absence of oxygen? | 181-184 (2) |   |
|  |  | 8.1 What physical principles underlie biological energy transformations? | 149-153 (5) | Note: You read 8.1 in the enzymes unit, but it should be read again. |
|  |  | 8.2 What is the role of ATP in biochemical energetic? | 153-155 (3) |  |
|  |  | 47.1 How is the mammalian nervous system organized? | 986-992 (7) | Lab: Anatomy of the human brain |
|  |  | Subsections on language and memory | 1000-1003 (3) |  |
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Important to keep the following exclusions in mind while you are reading:

***X Specific steps, names of enzymes and intermediates of the glycolysis and fermentation pathways are beyond the scope of the course and the AP Exam.***

***X Memorization of the steps in glycolysis and the Krebs cycle, or of the structures of the molecules and the names of the enzymes involved, are beyond the scope of the course and the AP Exam.***

***X The names of the specific electron carriers in the ETC are beyond the scope of the course and the AP Exam.***

Cell Energetics Unit Test Target Date = Wednesday 2/25/15