

### Cellular Respiration Worksheet

1. What are the 3 phases of the cellular respiration process?  
**Glycolysis, Krebs Cycle, Electron Transport**
2. Where in the cell does the glycolysis part of cellular respiration occur?  
**in the cytoplasm**
3. Where in the cell does the Krebs (Citric Acid) cycle part of cellular respiration occur?  
**in the mitochondria**
4. Where in the cell does the electron transport part of cellular respiration occur?  
**in the mitochondria**
5. How many ATP (net) are made in the glycolysis part of cellular respiration?  
**2 (net)**
6. How many ATP are made in the Krebs's cycle part of cellular respiration?  
**2**
7. How many ATP are made in the electron transport part of cellular respiration?  
**32 – 34**
8. In which phase of cellular respiration is carbon dioxide made?  
**Krebs Cycle**
9. In which phase of cellular respiration is water made?  
**Electron Transport**
10. In which phase of cellular respiration is oxygen a substrate?  
**Electron Transport**
11. In which phase of cellular respiration is glucose a substrate?  
**Glycolysis**
12. On average, how many ATP can be made from each NADH during the electron transport process?  
**3**
13. On average, how many ATP can be made from each FADH<sub>2</sub> during the electron transport process?  
**2**
14. What would happen to the cellular respiration process if the enzyme for one step of the process were missing or defective?  
**The entire process beyond that point could not happen.**
15. What happens to the high-energy electrons (and hydrogen) held by NADH if there is no O<sub>2</sub> present? **If no oxygen is present, the pyruvic acid must take the electrons (and their hydrogens) back.**