Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Unit 4

Period: \_\_\_\_\_\_\_\_ **Unit 4 Map – Cell Energy** Page: \_\_\_\_\_\_\_

Pre-AP Biology

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Topic** | **Specific Learning Target** | **Questions on Test** | **Quiz Score %** | **Test Score %** |
| 1. Photosynthesis  and ATP | A. I can describe how ATP is used and broken down. | **2** |  |  |
| B. I can describe the purpose of photosynthesis in living organisms. | **2** |
| C. I can differentiate between characteristics of the light reactions / light dependent reactions and the dark reactions / light independent reactions / Calvin cycle. | **5** |
| D. I can summarize the reactants and products of the photosynthesis reaction in words and chemical formulas. | **8** |
| E. I can describe the structure of chloroplasts. | **2** |
| F. I can define the terms “autotroph” and “heterotroph” and identify examples of each | **2** |
| G. I can compare and contrast the photosynthesis and respiration reactions and describe them as a cycle. | **2** |
| 2.Cellular Respiration | H. I can describe the purpose of cellular respiration in living organisms. | **3** |  |  |
| I. I can compare / contrast glycolysis, Kreb’s cycle, and the electron transport chain. | **4** |
| J. I can summarize the reactants and products of the cellular respiration reaction in words and chemical formulas. | **8** |
| K. I can describe the structure of mitochondria. | **2** |

**KEY TERMS:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ATP | ADP | Photosynthesis | Cellular Respiration | Reactant | Product | Light Reaction |
| Light Independent | Glucose | C6H12O6 | Chloroplast | Thylakoid region | Grana | Stroma |
| NADP+ | NADPH | Stomata | Autotroph | Heterotroph | Metabolism | Mitochondria |
| Aerobic | Anaerobic | Glycolysis | Kreb’s cycle | Citric Acid | Coenzyme A | e- carrier |
| NADH | FADH2 | Matrix | ETC | ATP synthase | Fermentation | Lactic acid |

In order to be eligible to retake any portion of the test, you must complete the End of Unit Review Packet before you take the original test.

Once you determine which portion of the test needs to be retaken (if a retake is necessary at all), you must complete the accompanying “target practice” assignment. Only after completing the target practice can you come after school to retake that portion of the test.

Retake scores will ALWAYS replace original test scores, even if they are lower than the original test score.