Photosynthesis and Respiration “Tracing the Path of Energy” Mastery Assignment Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Utah Science Core Curriculum objective 8.2.1c states “Trace the path of energy from the sun to mechanical energy in an organism.” In 8th grade Integrated Science mechanical energy can be defined as any form of energy that’s directly associated with motion or with a force. For this assignment, think of mechanical energy as the energy required to perform whatever task your daily human life requires (walking, lifting, talking, etc.). In accordance with the Utah Core Curriculum objective, you will be making a small poster that proves to me that you have mastered (hence the term “mastery”) the concepts of photosynthesis and respiration, and understand how they are related but different. Here are the requirements to show me that you have mastered the concepts we have talked about in Ecology thus far:

* Your poster must be aesthetically pleasing (make it look good). I expect it to be worthy of the wall or hallway it’s going to be put up on.
* It must include the following 8 terms and be illustrated in a way that proves you understand their meaning: photosynthesis, respiration, solar energy, mechanical energy, carbon dioxide or C02, water or H20, glucose or C6H12O6, and oxygen or O2.
* When your poster is completed or near completion, you must show and explain it to Mr. Saurer to prove that you have mastered these concepts. He will stamp this paper when you have sufficiently explained them.

This assignment is worth 25 points (about 2 ½ regular assignments). The poster itself is worth 15, the mastery stamp from Mr. Saurer is worth the other 10. Make sure you take the time to get the mastery stamp, or your maximum score will be 15 out of 25 (or 60%, a D-).

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