**PHOTOSYNTHESIS AND RESPIRATION**

**Mr. Getsinger         6th Grade Science                                              Standard:  6.L.1.2**

Explain the significance of the processes of photosynthesis, respiration and transpiration to the survival of green plants and other organisms.

**Key Questions:**

What is photosynthesis?

Where does photosynthesis occur?

Where does transpiration (evaporation from plants) occur?

How are photosynthesis and respiration complementary processes?

Where does cellular respiration occur?

**I can statements:**

I can define photosynthesis.

I can describe where photosynthesis occurs.

I can list the reactants and products of photosynthesis.

I can list the reactants and products of respiration.

I can identify and describe the purpose of stomata.

I can describe where cellular respiration occurs.

**You must create one of the products from the table below**.  Your product you must cover all of the material from the Essential Questions and “I can statements” from above.

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| Photosynthesis and Respiration |
| 1. Compare photosynthesis to respiration using a Venn-diagram. You should include at least four ideas in each part of the diagram. |
| 2. Create a song to the beat of Yankee Doodle that explains what happens during           photosynthesis and respiration. |
| 3. Draw an illustration that displays what happens during photosynthesis and respiration.           Label each stage in your illustration. |

**Resources that you can use to expand your knowledge:**

**Photosynthesis:**

+Brainpop video:  <https://www.brainpop.com/science/cellularlifeandgenetics/photosynthesis/>

+Discovery Education Article, *“Getting to know: Photosynthesis”* You must use your chromebook single

sign-in to access Discovery Education.

+6th Grade Science Textbook Pages, “NC12-13” These are in the back of the book.

+Photosynthesis Song:  <https://youtu.be/8u_hwwztRqI>

**Respiration:**

Brainpop Video:  <https://www.brainpop.com/science/cellularlifeandgenetics/cellularrespiration/>

Mr. Parr rap, <https://www.youtube.com/watch?v=FHWbjnzfi_U>

**Connection between the two processes:** Article, “**Connecting Cellular Respiration and Photosynthesis**” <http://www.ck12.org/user%3Ac3RyYW5kbkBsb2Nrd29vZHNjaG9vbC5vcmc./book/Mrs.Strands-6th-Grade-Science/r14/section/2.15/>

**Post assessment Quizizz:**    <http://quizizz.com/admin/quiz/572274ffb11894ff5d04d529>