

## A Comparison of Photosynthesis and Respiration

	Photosynthesis	Aerobic Respiration
What is the overall equation (use chemical formulas)?		
What are the reactants (use words)?		
What are the products (use words)?		
Stores energy or releases energy?		
Performed by autotrophs, heterotrophs, or both?		
Where in the eukaryotic cell does the process occur?		

Overall, how can you summarize the relationship between photosynthesis and respiration?

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Can we live without plants? Explain your answer: \_\_\_\_\_

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# Photosynthesis and Respiration Rap

You and a partner are going to create a music video, of any genre of music, containing a song about the differences between photosynthesis and respiration.

By the end you'll be able to:

- Define photosynthesis and its products, and respiration and its products
- List the steps of each process and corresponding parts involved by creating a rap or song

If needed:

Student may partner up with two other students and give ideas while the others write down the lyrics.

Students may use another rap song's beat as background to their rap.

Students may make a poem into a video with a storyline if difficulty with putting lyrics to a beat.

Needs:

1. All vocabulary words underlined (***no need to underline a word more than once***)--see below
2. Make sure you label your verses and refrain.
3. Rap or song must be to a beat.
4. All members must have input and all must try to perform the rap (please see me for exceptions).
5. Video must be around 2-3 minutes long, using appropriate props and background noises.
6. Adhere to the rubric below and the Communication Rubric!

Points: \_\_\_\_\_ /40 possible

Performance (8 max pts)

Evidence and Support (8 max pts)

Organization (8 max pts)

Composition (8 max pts)

Individual Effort (8 max pts)

## Vocabulary needed (12):

- Photosynthesis
- Glucose/  $C_6H_{12}O_6$
- Carbon dioxide/  $CO_2$
- Oxygen/  $O_2$
- Autotroph
- Heterotroph

- Sunlight
- Chloroplast
- Mitochondria
- Respiration
- ATP
- ADP

**Extra credit:** Include the different stages of photosynthesis and cellular respiration in your music/poem