

## Comparing Photosynthesis and Cellular Respiration

**Directions:** Compare and contrast photosynthesis and cellular respiration by completing the table below. Using the phrases provided, write the correct phrase in the correct column.

|                             |                       |                                         |                        |
|-----------------------------|-----------------------|-----------------------------------------|------------------------|
| Releases energy from sugar  |                       | Stores energy in sugar                  |                        |
| Breaks down glucose         | Makes glucose         | Uses $\text{CO}_2$                      | Produces $\text{CO}_2$ |
| Uses $\text{O}_2$           | Produces $\text{O}_2$ | Uses sunlight                           | Does not use sunlight  |
| Uses water                  |                       | Produces water                          |                        |
| Takes place in mitochondria |                       | Takes place in chloroplasts             |                        |
| Occurs in all eukaryotes    |                       | Occurs mainly in green plants and algae |                        |

| Photosynthesis                          | Cellular Respiration        |
|-----------------------------------------|-----------------------------|
| Stores energy in sugar                  | Releases energy from sugar  |
| Makes glucose                           | Breaks down glucose         |
| Uses $\text{CO}_2$                      | Produces $\text{CO}_2$      |
| Produces $\text{O}_2$                   | Uses $\text{O}_2$           |
| Uses sunlight                           | Does not use sunlight       |
| Uses water                              | Produces water              |
| Takes place in chloroplasts             | Takes place in mitochondria |
| Occurs mainly in green plants and algae | Occurs in most eukaryotes   |

# Photosynthesis And Cellular Respiration Teachers Guide

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