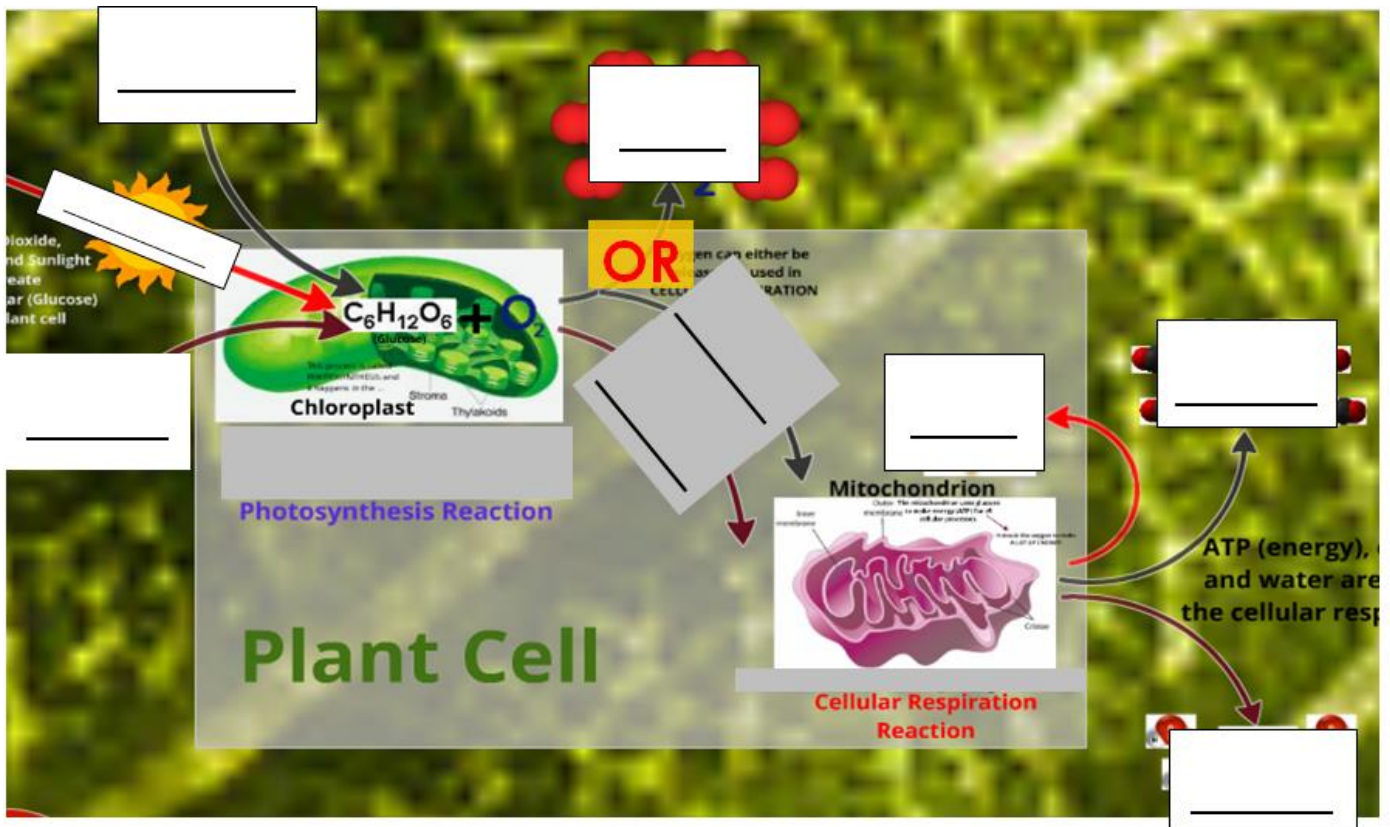


Name: _____

Date: _____

Period: _____

Now that you have learned about photosynthesis, you will learn how plants exchange gases with their environment. Before we get started, as a reminder about how photosynthesis and cellular respiration are related, fill out the diagram below.



What molecules **enter** the leaf? _____ & _____

What molecules **exit** the leaf? _____ & _____

What gas can both exit the leaf **OR** be used by the plant? _____

Now watch this [video](#) to see how molecules are taken from & given to a plant's environment.

1. What part of the plant does **most** of the photosynthesis take place in? _____
2. What are the small openings on the underside of a leaf called? _____
3. What types of cells control opening and closing of the stomata? _____
4. What gas **enters** through the stomata? _____
 - a. What process is it being used in? _____
5. What two gases **exit** through the stomata? _____ & _____
 - a. What process were they made by? _____
6. When are the stomata open? _____
7. When does photosynthesis occur? Why? _____