

## AP LAB INVESTIGATION 5 PHOTOSYNTHESIS

What factors affect the rate of photosynthesis in living leaves?

### ■ BACKGROUND

Photosynthesis fuels ecosystems and replenishes the Earth's atmosphere with oxygen. Like all enzyme-driven reactions, the rate of photosynthesis can be measured by either the disappearance of substrate or the accumulation of product (or by-products).

The general summary equation for photosynthesis is

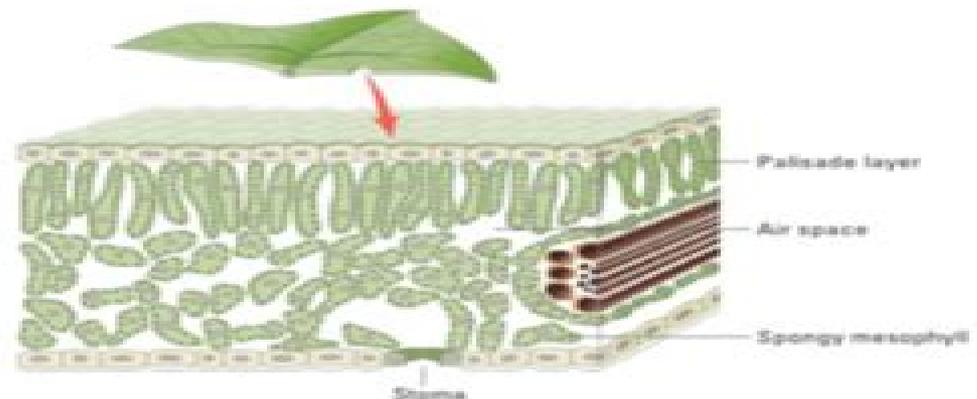


What could you measure to determine the rate of photosynthesis?

- Production of  $\text{O}_2$  (How many moles of  $\text{O}_2$  are produced for one mole of sugar synthesized?), or,
- Consumption of  $\text{CO}_2$  (How many moles of  $\text{CO}_2$  are consumed for every mole of sugar synthesized?)

In this investigation, you will use a system that measures the accumulation of oxygen.

Because the spongy mesophyll layer of leaves (shown in Figure 1) is normally infused with gases ( $\text{O}_2$  and  $\text{CO}_2$ ), leaves — or disks cut from leaves — normally float in water. What would you predict about the density of the leaf disk if the gases are drawn from the spongy mesophyll layer by using a vacuum and replaced with water? How will that affect whether or not the leaf floats? If the leaf disk is placed in a solution with an alternate source of carbon dioxide in the form of bicarbonate ions, then photosynthesis can occur in a sunken leaf disk. As photosynthesis proceeds, oxygen accumulates in the air spaces of the spongy mesophyll, and the leaf disk will once again become buoyant and rise in a column of water. Therefore, the rate of photosynthesis



**Figure 1. Leaf Anatomy**

# Biology Lab Investigation 5 Answers

**BM King**



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