



Word equation  
for  
photosynthesis

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Carbon dioxide +  
water -- (light energy &  
chlorophyll) -->  
glucose + oxygen

Chemical  
equation for  
photosynthesis

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$6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow$   
 $\text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$

Adaptations of  
leaves for  
photosynthesis

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Flat & thin, tiny pores  
called stomata, chlorophyll  
(in chloroplasts), usually  
tilted towards the sun

Stomata

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Tiny openings on  
the underside of a  
leaf that facilitate  
gas exchange





Photosynthesis

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The chemical process by which plants make their own food

Chlorophyll

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Green pigment found within chloroplasts of plants cells

Glucose

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A simple carbohydrate (sugar) produced by photosynthesis

Photosynthesis products

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Glucose, oxygen, water





Phloem cells

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Cells which transport glucose around the plant

Xylem cells

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Cells which transport water up the plant

Starch

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A complex carbohydrate used to store glucose in different parts of plants

Factors affecting rate of photosynthesis

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Light intensity, CO<sub>2</sub> concentration, temperature

