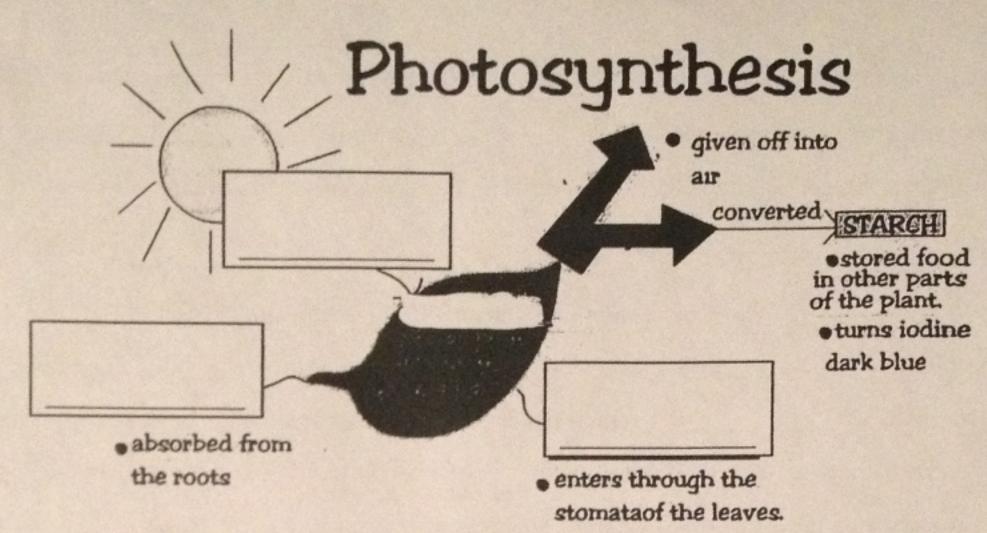
Photosynthesis Active Read



| **Wor           | WORD BANK ds may be used more than | once**          |
|-----------------|------------------------------------|-----------------|
| Chemical Energy | Food                               | Capture(s)      |
| Light Energy    | Uses                               | Animals         |
| Water           | Materials                          | Photosynthesis  |
| Chlorophyll     | Roots                              | Glucose (Sugar) |
| Carbon Dioxide  | Oxygen                             | Stomata         |
| Leaves          | Inside                             | Chloroplast     |
| Starch          | Plant                              | Stores          |
| Sun             | Roots                              | Green Color     |

| In the spring         | and the summer you will notice th | at the leaves on trees are | green. This is |
|-----------------------|-----------------------------------|----------------------------|----------------|
| because               | is taking place. In order for     | to occur,                  | the leaf takes |
| in certain            | that will help with the process.  | A needs to take            | a gas from the |
| air called            | Carbon dioxide comes fr           | om animals when they bro   | eathe. Plants  |
| also need             | _, which they get from their      | taking it out of the       | ground. The    |
| third thing that a pl | ant needs to start                | is the light from the      |                |
| Plants capture        | and make the                      | eir ownusing it.           | The process of |
|                       | is what allows the plants to make | their own food. Photosyn   | thesis allows  |
| the                   | each leaf to capture energy.      | The captured energy is us  | sed to build   |
| carbohydrates from    | simple raw materials (water, carb | on dioxide and minerals).  | These          |
| carbabydrates also    | known as are the plants           | food. The plant            | some of the    |

| sugar, but also   | some. Photosyn                             | thesis also need                 | s the following                                    | raw materials to   |
|---|--|----------------------------------|--|--|
| function: carbon dioxid   | le and water.                              | breath                           | e out  | , so this gives  |
| the plants the carbon of  | dioxide they need. 7                       | The materials en                 | ter the plant ei                                   | ther at the  |
| or the  |  |                                  |  |  |
| ++  | ne leaf there is chlo                      | rophyll. This chl                | orophyll is what                                   | the  |
| sun's light.  |  |                                  |  |  |
| converted into  |  |                                  |  |  |
| When this chemical ene  | ergy is introduced to                      | o the carbon dio                 | xide and the wa                                    | ter, glucose (sugar)   |
| and oxygen are created  | l. A very simple way                       | to put this is: C                |  |  |
| W+ C  | +5   | = 0                              | + 5  |  |
| There are different part which are pores on the night the pores release is what gives the plants inside chloroplasts. A | underside of leavesand their green coloris | These pores let they allow for w | ater to evapora<br>is found in the<br>chlorophyll. | eaf and then at<br>ite. The chlorophyll<br>cells of the plants |
| 2. Where does photosy   | nthesis take place?                        |                                  |  |  |
| 3. What chemical is resp  | oonsible for photosy                       | nthesis?                         |  |  |
| How is photosynthesis   | s an energy transfer                       | ?                                |  |  |

| 5.   | Why is photosynthesis considered a biochemical process? |
|------|---|
| 6.   | What are the products of photosynthesis?                |
| 7.   | What role do the stomata play in photosynthesis?        |
| 8.   | What role does chlorophyll play in photosynthesis?      |
| ). · | What is the purpose of starch?                          |
|      |   |