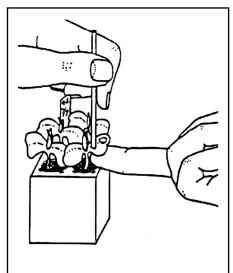


## Investigating photosynthesis with leaf discs

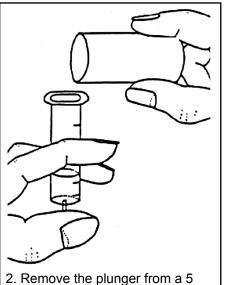
Read these instructions carefully before you start.

Take care with chemicals in syringes to avoid accidents, especially to your eyes.

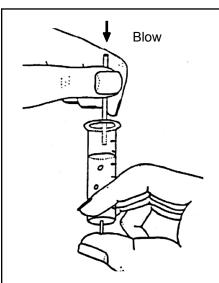
We recommend using safety goggles for this experiment.



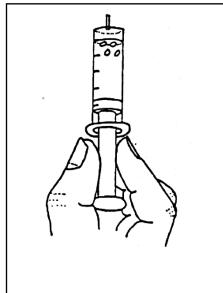
1. Use a plastic straw to cut four leaf discs from a plant.



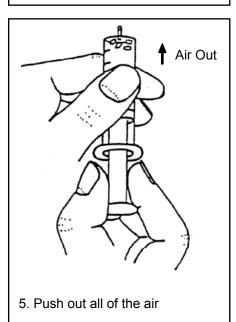
2. Remove the plunger from a 5 cm3 transparent plastic syringe. Add 5 cm3 of 0.2M sodium hydrogen carbonate solution.

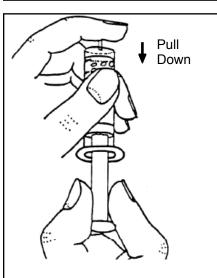


3. Gently blow the leaf discs out of the straw into the solution in the syringe



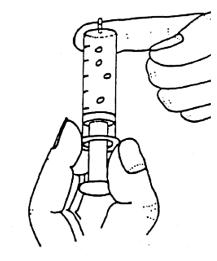
4. Carefully replace the plunger and point the syringe upwards



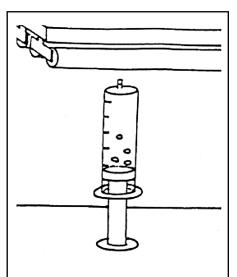


6. Place a finger over the nozzle and gently pull the plunger down. Many bubbles will appear on the leaf discs.

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7. Tap the syringe vigorously so that the air bubbles rise to the top. Repeat steps 5, 6, and 7 until all the discs sink



8. Put it under the light-bank and start a stop watch. Record the time taken for each disc to rise.