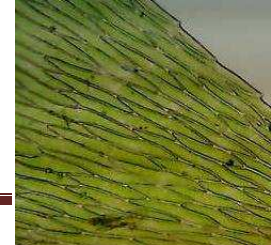




## Examination of plant respiration

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### Necessary materials and tools:

- a) Petri dish, glass dome, beans, lampion (small oil lamp) or candle, matches
- b) Petri dish, test tube, rubber plug, glass tube, wheat, lime (water) -  $\text{Ca(OH)}_2$ .

### Description of experiment:

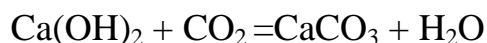
- a) Germinate beans under the glass dome! Slide the lampion under it in one or two days.
- b) Germinate grains of wheat then put them into test tubes. Put lime (water) in another test tube. Plug the mouth of the test tube in with a holey rubber plug, insert a small glass tube to the hole, then put the test tube with the germinated grains of wheat on the protruding part of the rubber plug.

### Result:

- a) The flame goes out because of the consumed/used oxygen.
- b) The lime (water) gets turbid after one day.

### Explanation:

- a) Decomposing processes occurring during germination need oxygen.
- b) Equation of the process:



The turbidity was caused by the calcium carbonate generated during the process.