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**ABSTRACT**

In this experiment, the main purpose is to determine whether the plants produce starch in the presence of photosynthesis. Upon examination of this experiment, it’s clear that the food produced is in the form of starch, the presence of starch can be tested chemically using Iodine solution, turning starch black. We conduct this experiment under the presence of sunlight and air. We found that the lighted candle used up the oxygen in the air within the jar by combustion and it was then further replaced by carbon dioxide, this was used by plant to perform photosynthesis. On the other hand the other plant was unable to produce starch because it has lost carbon dioxide since the dish of caustic soda absorbed all carbon dioxide in the air under this bell jar. Therefore, the results indicate that carbon dioxide is really crucial for carrying out the process of photosynthesis. And the fact is that plants use carbon dioxide in the air and absence of photosynthesis will cause the color of starch to be black while performing the experiment.