

This is a "mini" copy of a Science Fair Report for you to use as a sample when writing/typing your own report.

"Plant Growth!"

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4th Grade
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(Hint The Title page is simply that! List the title of the experiment, the student's name, grade level, and school.)*

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(Hint This page tells the page numbers for each part of the whole research paper.)*

Purpose / Question:

Does sunlight Affect the Growth of a Plant?

(Hint This page simply tells your scientific question. What is the purpose of your experiment?)*

Hypothesis:

I think that plants do need sunlight to grow. I believe they need sunlight to make their own food. Without sunlight, they will starve.

(Hint This page tells your scientific guess, or your answer to the question. What do you think will happen?)*

Materials:

- * 2 tomato plants (same size)
- * dark room / sunlight area
 - * water
 - * ruler
 - * camera
- * data notebook

(Hint Simply list all of the supplies that you will use during your experiment.)*

Procedure / Plan:

1. First I will get 2 plants that are the same.
2. I will put one plant in the sun, and one plant in the dark.
3. I will monitor them daily, and measure the heights, and record in my data notebook.
4. I will document the growth by also taking pictures daily.
5. I will water them the same amount of water daily.
6. After a few weeks, I will see the difference between the two plants.

(Hint List the steps in order that you did to complete your experiment. Tell me everything, so I could do the same experiment by myself.)*

Results:

After conducting my experiment, I found out my hypothesis was correct. The plant that was receiving sunlight did grow much better. In fact, the plant that we placed in the dark shriveled up and died.

(Hint Was your hypothesis correct, or was it incorrect? Remember... it is OK to be wrong. We learn the truth either way by receiving the results.)*

Conclusion:

After doing the experiment, I did some research to find out "why" the plant in the sunlight grew better than the one in the dark. I learned that plants need sunlight to make their own food. This is called the process of photosynthesis. The sun shines on the plant's leaves and reacts with the chlorophyll to make food. Basically by not allowing the plant to get sunlight, I was not allowing the plant to get any food! I basically starved the plant to death.

(Hint This is the part where you do your research and "teach" us "why" your experiment happened the way it did.)*

Bibliography:

A book by a single author:
Harris, Celia. Plants and Flowers. Chicago: Grosvenor, 2002.
(Author) (title of book) (city) (publisher) (year)

A book by more than one author:
Barrett, Joseph, and Stevens, Ross. Plants: Plants. New York: Wadsworth, 2004.
(Author) (title of book) (city) (publisher) (year)

An Encyclopedic Entry:
"Vines, Climbers, and Plants." Encyclopedic American. 1999.
(title of article) (name of encyclopedia) (year)

A Magazine article:
Chen, David. "Planting your Garden." Home and Garden. July 9, 2004. 120-121.
(author) (title of article) (name of magazine) (issue date) (page)

(Hint This is where you give credit to the books and articles that you used for your research.)*