

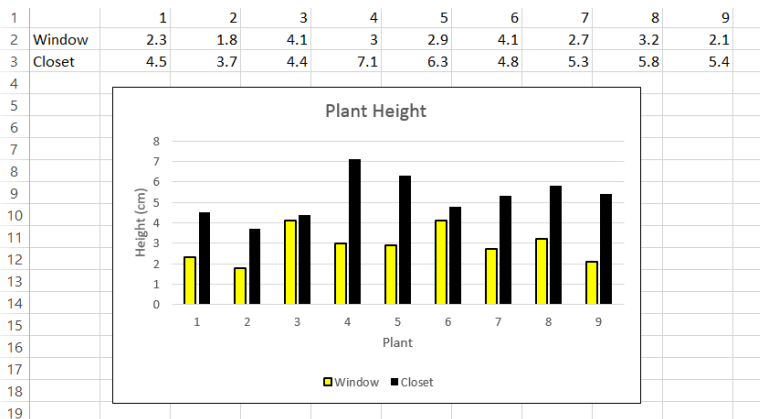
## WRITING AN ANALYSIS AND CONCLUSION

An **analysis** is a summary of your data (evidence) and patterns found in this data.

- Results should be written in at least two paragraphs.
- Explain the results and what the results mean.
- All measurements should be in metric units.
- If the experiment did not turn out the way it should have try to explain why or what went wrong.

Questions to help you...

- What did you observe during your experiment? What happened?
- What do you notice about your data? Are there any numbers that stick out or form a pattern?
- Describe in COMPLETE sentences what the numbers tell you.
- Are there any numbers that seem out of place? What are those numbers and why do you think they are out of place?



### Analysis

All of my plants germinated and grew. All of the plants in the closet had a taller height than the plants in the window. The tallest height of the closet plants was 7.1 centimeters. The tallest height of the plants in the window was 4.1 centimeters which is a difference of 3 centimeters. Even though the plants in the closet had a taller height they were not healthy looking plants. All of the bean plants in the window had at least three leaves and stems that were wide in comparison to the bean plants in the closet. Many of the closet plants had only one leaf and they all had very thin stems. The plants in the window were a deep green and grew straight up towards the window. The bean plants in the closet were more of a whitish-green and the plants grew horizontally and a little bit down. The plants in the closet all grew towards the bottom of the door where a little bit of light came in. The plants were growing towards the only light they could find which could explain why the plants would have a taller height even though the plants in the window had sunlight to help them grow taller.

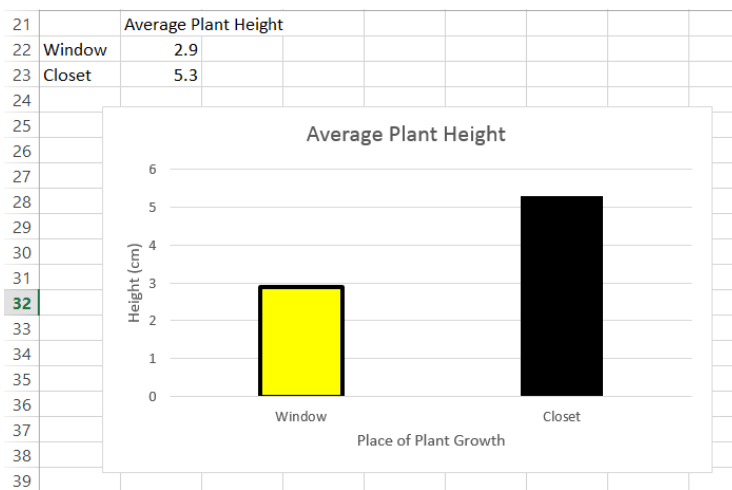
If I was to do this experiment again, I would cover the bottom of the closet door with construction paper so that the plants had absolutely no light. I would also begin observing my plants every day after I planted them so I would know when the plants first came up. I do not know if the plants in the window came up before the plants in the closet or if light even affects how fast the plant first comes up. I also do not know if the plants in the closet grew fast right away or if they grew faster as the weeks went by. Watering the plants was also a challenge. The plants in the window seemed to dry out faster than the plants in the closet. The soil in the pots of the plants in the closet was always moist and never dried out. The soil of the plants in the window dried out about every three days. Even though the plants in the closet did not need to be watered, I had to water them because I watered the plants in the window.

- Notice that I did not write about what I learned or what my average results were. What I learned and my average results belong in the conclusion.

A **conclusion** tells what you learned.

**Conclusion**

- Restate the focus question as a topic sentence.  
**I did this experiment to learn...**
- What was your hypothesis?  
**I thought that...because OR My hypothesis was... because...**
- What is your claim?  
**I found out that...**
- Every claim must be supported by evidence. Give your final results - - your average results go here!!!  
**I know this because...**
- Show the connection of the Big Idea to the “real world.”  
**This information would be useful to ... because...**
- What new thoughts or questions do you have?  
**If I was to investigate further, I would...**



**Conclusion**

I did this experiment to learn if plants grow taller in the sunlight or in the dark. I thought that plants would grow taller in the sunlight because plants need sunlight for photosynthesis. I found out that plants grow taller in the dark. I know this because the average height of the plants in the closet was 5.3 centimeters and the average height of the plants in the window was 2.9 centimeters. This information would be useful to people who grow plants in a room without a lot of light. If I was to investigate further, I would find out if corn plants grow taller in the dark.