Science Fair Project

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Due: Nov 5th

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Due: Dec 2nd

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Assigned: Jan.12th ___/100
Due: Jan 27th

Science Fair topics template

TITLE A

Step-: 2 Project Ideas Proposal

Assigned: 10/27

Deadline: 11/05

1st Idea: Topic__color changing flower experiment

(Please circle one: engineering/science)

2nd Idea: Topic___**Vinegar Volcano**_____

(Please circle one: engineering/science)

My Final idea: ____Gravity and solar system__

Question:_____

Resource(s): ____google doc.com_____

Science Fair Topics - Draft

Write down the topic you chose:

color changing flower experiment.

What made you want to pick this topic?

Its fascinating and pretty creative along the way.

Do you find these topics interesting? Why?

I find these topics very interesting because they involved a lot of surprising and unique at the end of the project.

Science Fair Topic and Question - Final

Which topic did you choose?

color changing flower experiment.

What question(s) are you testing? *the effects of temperature in different surrcupstantes on where to put the flower.*

How are you going to test your hypothesis?

We are going to test this theory on puting the rose in different places that have different temperatures such as put one of each flower in a different temperature like ice or heat.

Background Summary

Find information and record the sources you use that help you make an educated guess to your testable question.

Write a 1 paragraph summary for each of your sources.

Tip: Make your hypothesis after this is done

We are going to add droplets to the water and leave the flower in a spot where its a different temperature and let it sit for at least 24 to 48 hours maybe.Then after we are going to see which flower had the most accurate change and if the process of one of the flowers had the most efficient color and temperature for the flower. But before that we are going to test if the temperature is good for the project to work. After im finished with my project, im going to check if the hypothesis is correct.

Step 3 Background Research Source 1

TITLE B

Source 1

Title: the effects temperature of the capillary actions__

Summary:

What's the big idea about the article?

How will the temperature affect the flower well each of the flowers are in each different spot to reach any different temperature.what will happen in my opinion i think that the one thats in the sun will go faster because the flower that has cold temperature would probably make the process of the diy going slow for the flower.where we are going to put the flowers is one in the fridge because the climate in the fridge is cold and the other flower will be in a warm spot.when we are going to test this theory is some time in the afternoon because the sun hits and it a warm for the flower to be hitting the flower.who is going to do this is me and im going to be testing if this will make it work.why im doing this project is because i want people to know how this works and tell them how the experiment went.

In complete sentences, describe a few details (who, what, where, when, why, and how)

Source 1 Bibliography

If the source is a book, Title of the book: https://share.google/GZoS7s44rbXhvkLJD
Author's Name: Vanessa Levin
Date Published: May 2025
Place Published: Montessori School of Silicon Valley Publisher: *The Homeschool Scientist* Date Published: May 2025
Edition: none (if applicable)
Page Number(s): none

Background Research Source 2

If this source is a: _____ Magazine _____ Newspaper _____ Other
Title of the publication: flower dyeing science https://www.confessionsofahomeschooler.com/blog/2013/04/flower-dying-science-experiment.html

Title of Article: *Color-Changing Flowers*

Author's Name: *Dyeing Flowers*

Date Published: not published.

Edition: Volume Number: Page Number(s): Montessori School of Silicon Valley,
(if applicable) (periodicals or encyclopedias)

This source is a: _____ Website _____ Other

The URL is http:// www.thespruce.com and http://www.quora.com and http:/ www.venusetfleur.com.

Last Date of Access:

Title of Article: . color changing flowers

Author's Name:
Dyeing flowers

Date of Article:
None of the early acess

Science Fair Hypothesis

TITLE B

Hypothesis: Use your background research to help you create a HYPOTHESIS that predicts the outcome of your experiment

What is your Hypothesis?My hypothesis was would the temperature affect the dye going to the rose and witch one would go quicker such as hot or cold and how many days will it take for the dye to change color..

Tip: Make your Hypothesis after the background research

Materials

Make a list of all the Materials you used for this experiment

Roses or carnations.

Vases

Diy

Water

Hot and cold water.

Thermometer

Ice

Vases/plastic cups

scissors

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Procedure

What are the steps you followed during this experiment?

1 water then add at least to 20 to 40 *of dye, add ice to one of the cups and for the others normal,and a warm cup.*

Write all of them down. Make sure they are exactly what you followed while doing the experiment.

Variables

What are the Variables of your experiment?such as flower preservation or arranging, is influenced by several variables related to the surrounding environment and the flower's own biological processes.

The factor we are changing is the liquid and solid to see how it will affect the rose..the dep

Dependent Variable? The length of the stem.

Independent Variable? the temperature of the water.

The thing we will change with our flower is the temperature such as we are going to put ice,hot,warm and the other temperatures then we are going to see how each is affected or how they change.

Control Variable?

What's being the same is the stem, and the rest of the body of the flower is not being the same because most of it is changing.

Crucial to ensure that the observed color change is solely due to the type of liquid used.

Testing the Hypothesis - Experiment

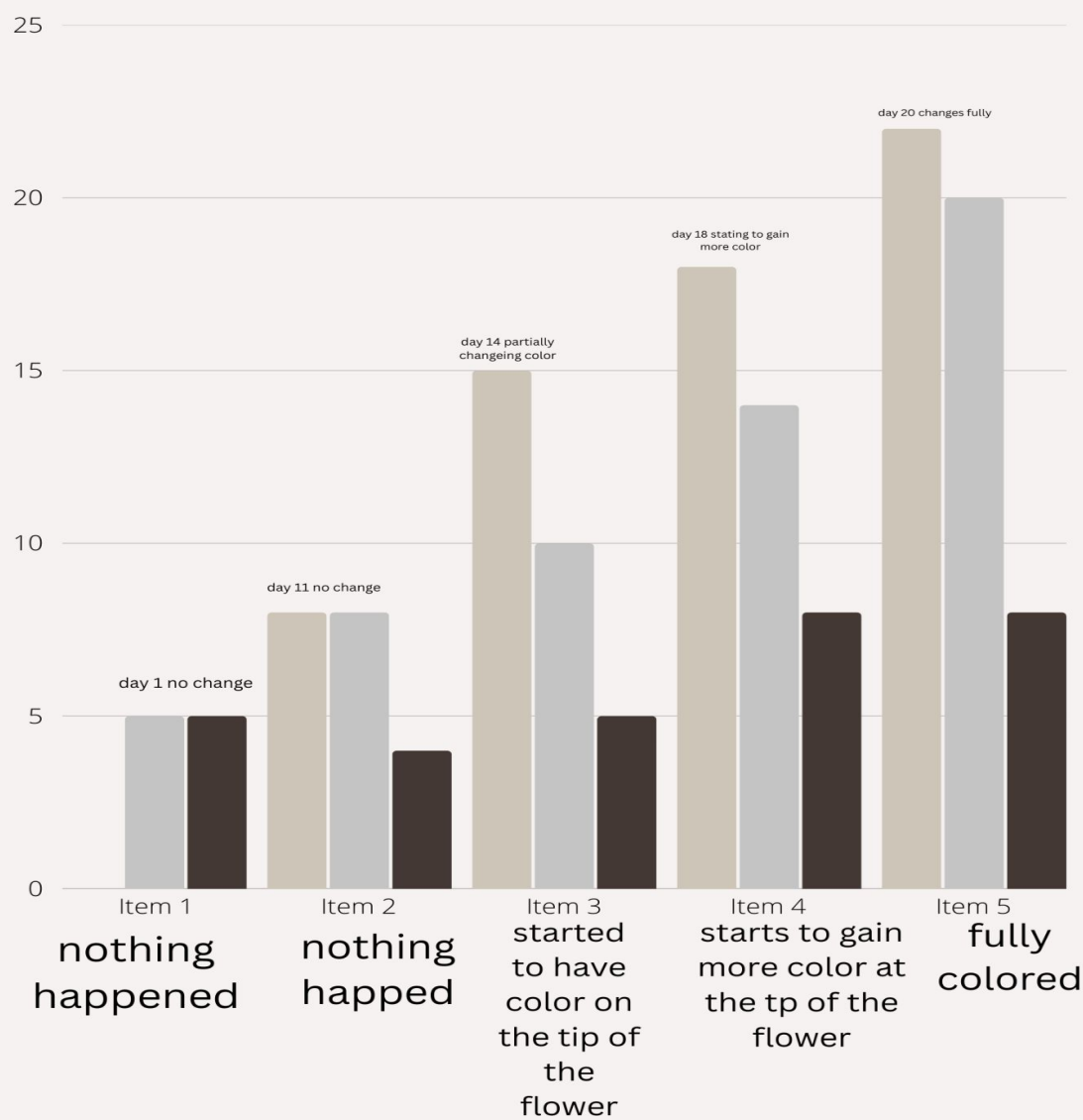
EXPERIMENT Collect and record data. Take pictures. Write everything in your science fair notebook, even mistakes and problems! Conduct your experiment multiple times to see if anything changes.

The one that was more efficient was the cold ones because it froze the stem then it sucked up the the dye so it could have a shorter amount of time,other then the other ones such as hot and warm

TITLE D

Results

Put your data into graph form and study your graph to see what kinds of trends you notice.



Conclusion

Based on your results, what was the outcome?

Does your data show that your hypothesis was correct?

What kinds of problems did you have?

1. Losing alot of time.

What would you do differently next time? *next time i want to be on top of everything so would've fallen behind so much.*

Rough Draft Report

You will use all the information from above to put together a rough draft report.

Overall in the beginning it was fun cutting the flowers and adding the dye and putting the flowers in different spots of the house and checking on them for at least more then 1-20day.it was cool to see the actions of the flowers change and happen because it was unique and fascinating.and in the end it was pretty and it was it not that bad it did take long but overall it was great.

TITLE

Final Draft Report

Go back to your Rough Draft Report and fix any mistakes.

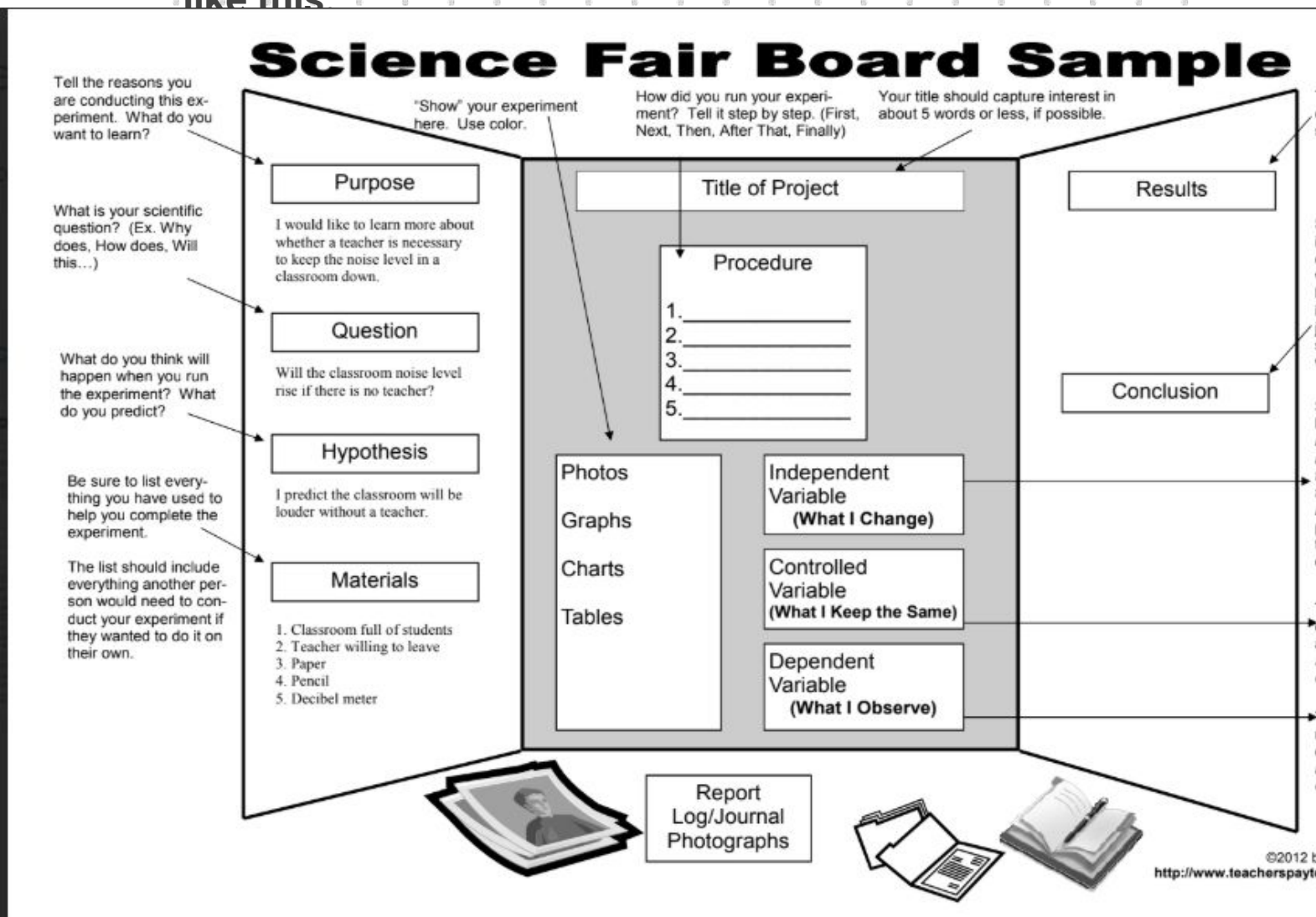
Ask a teacher for their opinion.

Pretty good

Make final changes.added the flowers and how it was for to do this type of project.

Final Project - Display Board Report

Make a Trifold Poster Board

Have it include all the components you have included in this Binder so far.

Your Finished Poster Board should look something like this: