



Go Flowers

Abstract

My science fair project was growing flowers to see which one would grow the fastest and tallest. What I did was I started planting them and it took about 2 weeks to all sprout. I had a little green house for them to keep warm. I put them out for sun each day and watered them every evening and then brought them in every day. I measured them 5 times in total. I did that for 8 1/2 weeks. They aren't all full grown but the Comos already have flowers. The comos grew the fastest and tallest. The cape daisies are the shortest and took the longest to grow and sprout. That was a summary of my science fair project.

Big Question

What type of fall/winter flower will grow the fastest/tallest?



Research

Home and Garden Information Center , Google, Britannica

- Marigolds can grow from 6 inches-3 feet tall. 45 to 50 days to fully grow-Home and Garden Information Center.
- Zinnia can grow from 6 inches-3 feet tall. 7 to 10 days to fully grow-Google
- Sunflower can grow from 6 feet-10 feet tall. 10-35 days to fully grow-Britannica
- Cape Daisy can grow from 3 inches-4 inches tall. 1-2 weeks to fully grow-Britannica
- Cosmos can grow from 20-54 inches tall. 7-21 days to fully grow-Google

Hypothesis

I think that the sunflower will grow the fastest and tallest because from my research it said that it can grow up to 10 feet tall, it will grow from 10-35 days at the most.



Procedures

1. Get the same type of pot.
2. Use the same soil.
3. Plant the seeds.
4. Give them the same amount of water.
5. Keep them inside at night and outside during the day.
6. Use a temperature between 70-80 degrees.
7. Use the same location and sunlight exposure.
8. Water them every day.
9. Watch them grow.

Variables

I will have five different seeds. They will be planted in the same type of pot. The seeds will be planted in the same kind of soil, all watered exactly the same. I will keep them in the same place, use the same temperature, and the same sunlight exposure. I will use the same ruler to measure each of the plants. The ONLY difference will be the type of seeds. **The changing variable is the seed.**

Materials

Five types of seeds

Soil

Five pots

Water

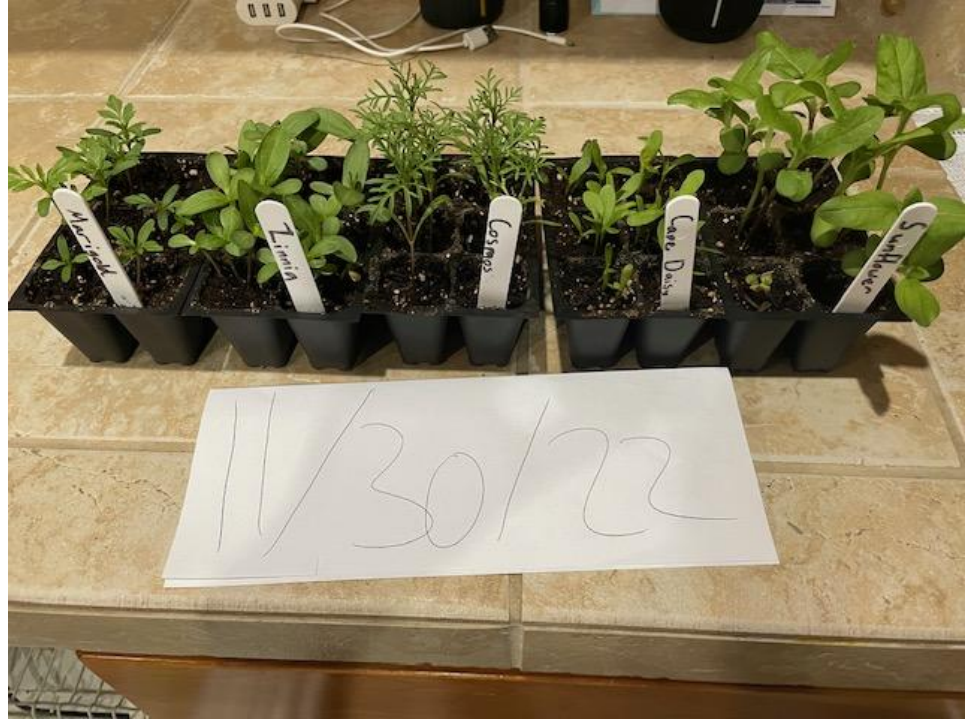
Ruler

Measuring cup

Small Green House

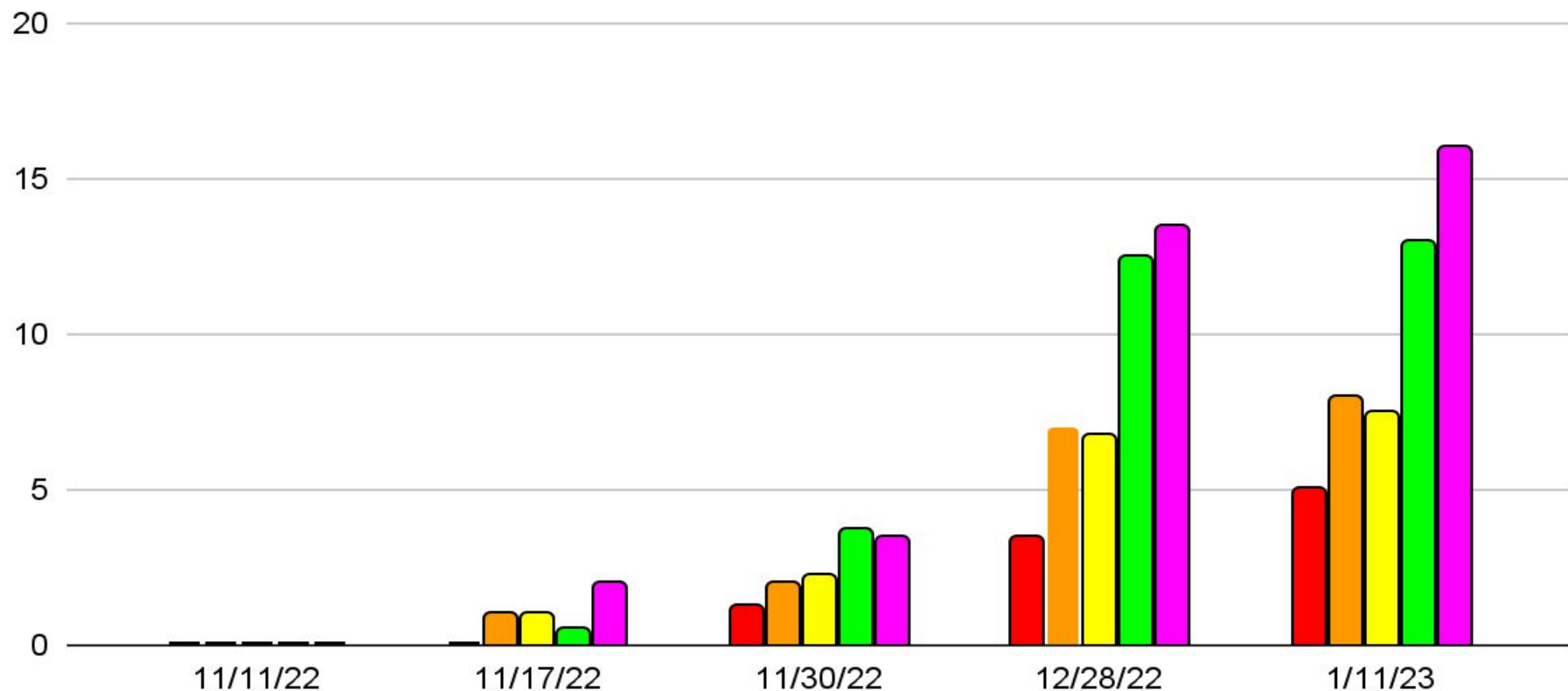
Journal

My chart



Growth Speed of Flowers

■ Cape Daisy ■ Marigolds ■ Zinnas ■ Sunflowers ■ Comas



Results

Sunflower: The sunflowers grew 13 inches in 8 1/2 weeks. I noticed that the sunflowers started growing really fast then they started growing really slow.

Marigolds: The marigolds grew 8 inches in 8 1/2 weeks. I noticed that the marigolds went slow then jumped like 6 inches then went back down.

Cape Daisy: The cape daisies grew 5 inches in 8 1/2 weeks. I noticed that the cape daisies started growing really slow and kept growing slow.

Comos: The comos grew 16 inches in 8 1/2 weeks. I noticed that the comos started growing faster than all of the others and kept in the lead.

Zinnia: The zinnias grew 7 1/2 inches in 8 1/2 weeks. I noticed that the zinnias started growing pretty good pasted and kept that good pasted.



The picture to the right is the final date 1/11/23

Conclusion

The plant that grew the fastest and tallest was the Comos. Looking at my results the first week the sunflowers started very early. The second week the Comos started growing as fast as a cheetah. The sunflowers didn't grow as fast as the comos did. My hypothesis was incorrect because the Comos beat the sunflowers by 3 inches. If I were to do my experiment again, I would get a bigger green house because they all out grew it. I would also change the size of the pots because I think they needed more room to grow. Last but not least I would want to keep the sunflowers and the comos and get different flowers because all of the other flowers grew about $5\frac{1}{2}$ - $7\frac{1}{2}$ inches.