

# ***Growing Plants with Different Ways***

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With UV light, no light with egg shells and light

## **Purpose**

*When you walk into a store to buy some plants, you might think hey, which way is the quickest to grow plants. Well, in this project, I will be growing Daffodils/Narcissus with UV light (Ultraviolet light), light, and no light with egg shells.*

# **Hypothesis**

*I personally think the UV (Ultraviolet Light) will work better under all circumstances because the light we will be using is artificial light (electricity). Well, for the sunlight it might work well in summer because of how much energy the sun gives off.*

# **Materials**

- *Potting soil and pot*
- *Water (for watering the plants)*
- *Daffodil/Narcissus seeds*



# **Variables**

*Independent Variable:*

*The sun because it changes throughout the time of day*

*Dependent Variable*

*The amount the plant has grown*

*Controlled Variable:*

*The amount the plant has grown under different conditions.*

## **Procedure**

1. *Use the potting soil and add it the pot ( $\frac{3}{4}$  is good), (there should be holes on the bottom to filter the water out on all of them.*
2. *Then put the seeds in the pot*
3. *Repeat it 3 more times*
4. *Put one pot in sunlight, one with no sunlight with egg shells, and one under UV light.*
5. *Water the plant 2 times a day for each plant*
6. *Add something to the bottom of the pot to stop the water from leaking from your table*

Measured in centimetres

## **Observations**

Plants	Mar 19	Mar 20	Mar 21	Mar 22	Mar 23	Mar 24	Mar 25	Mar 26	Mar 27	Mar 28	Mar 29
With light	4	6	7.5	7.6	7.75	8	8	8.2	8.7	9	9.3
Without light	4	4	4	4.29	5	5.5	6.8	7	7	7.2	7.4
UV light	5	5.5	6	6.1	6.1	6.1	7	7.5	8.2	8.5	9.1

## **Results**

*In the end, the plant with sunlight grew the highest (9.3cm). The UV light grew the second highest at (9.1cm). The one without sunlight with eggshells grew (7.4cm).*



# **Conclusion**

*Therefore, this disproves my hypothesis right. I thought the UV light will work better but it was sunlight. I do not know why but probably the sun has more energy than artificial light.*

*Ways for improvement:*

- *I could have added an apple core, egg shells for all three of the plants*
- *I could have had equal amounts of plants*
- *I could have done more days on plants*

*Questions:*

- *Would there be a different effect if there were different types of plants?*

# **Bibliography**

- Source 1
- Source 2
- Source 3