

Growing Seeds

Aim:

I am aiming to determine the difference the amount of light makes on how tall a plant grows.

Equipment:

- 6 Sunflower seeds
- 300g Compost
- 6 Seed pots

Prediction:

I know that plants require sunlight to grow; therefore, I predict that the seeds in the sunlight will grow taller than those without sunlight.

Method:

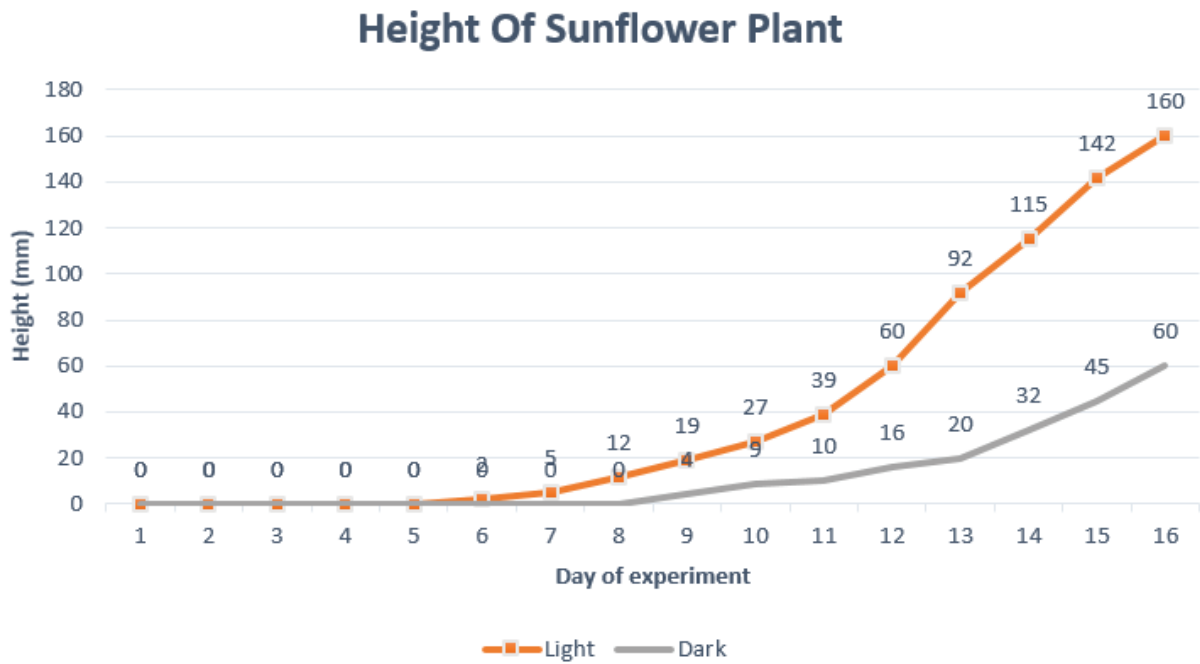
1. Fill each pot with 50g of compost.
2. Use a pencil to push a hole into the middle of the compost.
3. Sow one seed per pot and cover with the compost.
4. Place three of the pots next to a window that receives a lot of sunlight. Place the other three pots in a dark cupboard.

Fair Test:

It is important to follow guidelines to ensure the test is fair:

- Try to keep the temperature around the pots as similar as possible. Don't use an airing cupboard for the dark test.
- Water the seeds with the same amount of water, at the same time.
- When you take the measurements, do them at the same time.

Results:



Conclusion:

After observing my results, I found that the seed in the dark took longer to germinate. It was also very pale and hadn't produced the same leaves that the plant in the light had. I think that this shows conclusively that sunflowers need sunlight to germinate quickly and to grow healthily.

SUMMARY FOCUS

1. Why do you need six pots?
2. What important information did the author use to form their prediction?
3. What should you do before you create a hole in the compost?
4. In which set of conditions did the seeds germinate first?
5. Why did the author conclude that sunflowers need sunlight?

VIPERS QUESTIONS

I

How many days did it take the seeds in the light to reach 60mm?

V

Which word or phrase means closest to "without any doubt"?

E

Why has the author represented their results as a graph, rather than a table?

R

How much compost would you need in total?

R

Between days 10 and 11, which set of plants only grew 1mm on average?

Answers:

1. You will need one pot per seed, and you are planting six seeds
2. That plants require sunlight to grow
3. Fill the pot with 50g of compost
4. Light
5. Those in the light germinated more quickly and looked more healthy/had more leaves

I: 12 days

V: Conclusively

E: It is easier to see visually how the plants grew taller

R: 300g

R: Those in the dark