

Question

Which grow light allows plants to germinate faster?

Hypothesis

I hypothesize that the red grow light will germinate the plant faster.

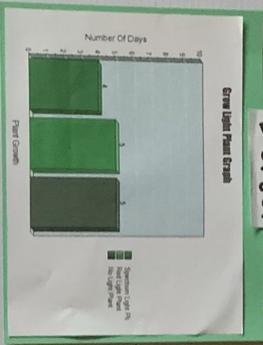
Materials

3 shoe boxes
3 pots
2 grow lights
3 zinnia seeds
potting soil
water

Procedure

- 1.) Put soil in pots
- 2.) Plant seeds
- 3.) Water each pot with 1/8 cup
- 4.) Put in shoe boxes
- 5.) Attach grow light inside of box

Data



Variables

Independent: Grow light
Dependent: Germination

Photos



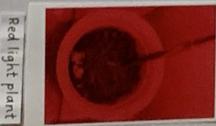
No light plant



All three plants (spectrum light plant, red light plant, and no light plant)



Spectrum light plant



Red light plant

Results

The plant under the full spectrum light germinated first.

Conclusion

Both the red and full spectrum light are made for germination however, the full spectrum light is more similar to natural sunlight than red light alone. Red light alone does not increase germination rate better than full spectrum light. That is why the plant under the full spectrum light germinated first.

Application

Being aware that the spectrum light is the best, this knowledge can be applied to lots of different fruits, vegetables, and flowers.

References

www.hgshydro.com