



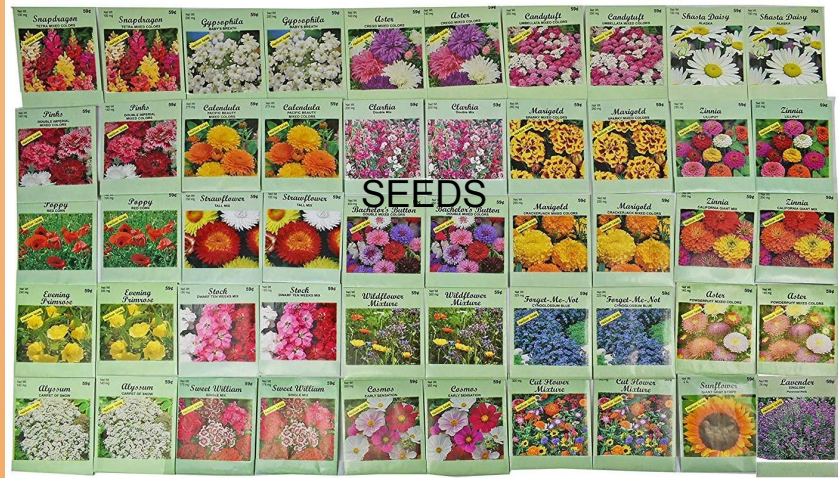
Bulbs vs. Seeds

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Question

Our Question was does a bulb or a seed bloom faster?



Hypothesis

Our Hypothesis was that a seed was going to bloom faster because a seed is smaller and will take less time and effort.



Materials and Procedure



Materials: Bachelor Button (seeds), Ranunculus (bulbs), soil, water, sunlight, and pots

Procedure: First, get your materials- you will need a place or container to plant in, soil, seeds, bulbs, a way to water, a place where your plants will get the most sunlight. Second, soak the bulbs in lukewarm water for 2 hours. Third, put soil in your pots. Fourth, take your pots and put the bulbs in one and seeds in the other. Fifth, cover them generously with dirt, and lightly water be sure to not disturb the seeds or the bulbs. (We will water them every two or three days.) Then lastly, place the pots in a spot where they can both get lots of sunlight. We put them inside our house near a window.

Variables

Manipulated Variable:
The plant is changing.

Controlled variables:
Everything but the flowers are staying the same.

Measured Variables:
We are measuring which type flower blooms first, Bachelor Buttons (seeds) or Ranunculus (bulbs).

Data

March 23, 2020: Seeds sprouted: Bulbs nothing	Light stem, tiny leaves at top
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March 24, 2020: Seeds got taller: Bulbs nothing	Light stem, small leaves at top, taller
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March 27, 2020: Seeds growing taller: Bulbs nothing	Light stem, tiny leaves at top, taller than bulbs
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April 1, 2020: Seeds growing: Bulbs sprouted:	Light stem, tiny leaves at top, taller than bulbs Small leaves and really short
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April 3, 2020: Seeds got taller: Bulbs got bigger:	Light stem, tiny leaves at top, Thick stem, more leaves
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Data (continued)

April 6, 2020: Seeds: Some got very droopy
Bulbs: taller than seeds

Small, Green, Droopy
Tall, Green, Strong

April 9, 2020: Seeds: Looking dead
Bulbs: One droopy the rest growing well

Dead looking
Strong green, tall

April 13, 2020: Seeds: Getting stronger still small and short
Bulbs: Really tall green healthy

Small short droopy a little
Really tall healthy

April 16, 2020: Seeds: No different than earlier
Bulbs: Growing fast and getting really tall

Small short droopy a little
Really tall green healthy

April 20, 2020: Seeds: One tall-ish other is sad and droopy seeing some mold!
Bulbs: Tall, green, Tall healthy green

Tiny, short,

Data (continued 2.0)

April 23, 2020: One tall-ish, others are sad and droopy, seeing some mold
Super tall and curvy

April 27, 2020: All dead
Super tall and curvy

April 30, 2020: Still dead
Some dead on the top, others tall and growing

May 4, 2020: Still dead
Super tall and healthy looking

Conclusion

In our science experiment, we wanted to figure out if a bulb or a seed blooms faster. Our hypothesis was proven wrong, because neither of the plants bloomed. But, the seeds died before the bulbs. We know that our hypothesis was wrong because on 4/20/20 the seeds started to droop and by 4/27/20 all the seeds were dead, while the bulbs were strong, healthy, and tall. The answer to the question is neither. The seeds nor the bulbs bloomed faster. (In the time we had.) The data tells us that the seeds take a shorter amount of time to sprout, but the bulbs live longer.



KEEP
CALM
it's
QUESTION
TIME

THANKS
FOR WATCHING



**Now
Seriously.
Any
Questions?**