Bulbs vs. Seeds

Bianca Latkins & Paisley Latkins
Our Question was does a bulb or a seed bloom faster?

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**

<table>
<thead>
<tr>
<th>Date</th>
<th>Seeds Description</th>
<th>Bulbs Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 23, 2020</td>
<td>Seeds sprouted: Light stem, tiny leaves at top</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bulbs nothing</td>
<td></td>
</tr>
<tr>
<td>March 24, 2020</td>
<td>Seeds got taller: Light stem, small leaves at top, taller</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bulbs nothing</td>
<td></td>
</tr>
<tr>
<td>March 27, 2020</td>
<td>Seeds growing taller: Light stem, tiny leaves at top, taller than bulbs</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bulbs nothing</td>
<td></td>
</tr>
<tr>
<td>April 1, 2020</td>
<td>Seeds growing: Light stem, tiny leaves at top, taller than bulbs</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bulbs sprouted: Small leaves and really short</td>
<td></td>
</tr>
<tr>
<td>April 3, 2020</td>
<td>Seeds got taller: Light stem, tiny leaves at top, taller than bulbs</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bulbs got bigger: Thick stem, more leaves</td>
<td></td>
</tr>
</tbody>
</table>
April 6, 2020:
Seeds: Some got very droopy
Small, Green, Droopy
Bulbs: taller than seeds
Tall, Green, Strong

April 9, 2020:
Seeds: Looking dead
Dead looking
Bulbs: One droopy the rest growing well
Strong green, tall

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

April 16, 2020:
Seeds: No different than earlier
Small short droopy a little
Bulbs: Growing fast and getting really tall
Really tall green healthy

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