Identifying Liquids in which Seeds Grow Best

Science Fair

Kristen Potluk

Denis Gagnon

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Problem: which liquid do sunflowers grow best with?

Variables  
  
- liquid (3ml)  
-height (cm)  
-greenness  
-health of plant  
-sunflowers growing

-Environment

-Light

-Soil

Hypothesis

I think fertilized water will grow the best because fertilizer has stuff in it that plants need to grow. The things found in fertilizer lack in the other liquids so I believe with the extra boost of necessary stuff they will grow better than the lacking liquids.

Materials

* Sunflowers
* Dirt
* Pots
* Water
* Milk
* Vinegar
* Orange juice
* Sugar water
* Fertilized water
* Ruler

Procedure

1. Put dirt in pots
2. Plant sunflowers
3. Water plants with liquids
4. (After 3 days) record height
5. Repeat step 3 and 4 for 5 weeks

Analysis

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| water | milk | Vinegar | Orange juice | Sugar water | Fertilized water |
| 1.1 cm | 1.2 cm | 0 cm | 0 cm | 1.2 cm | 2.1 cm |
| 2.3 cm | 2.2 cm | 1.1 cm | 1.2 cm | 2.3 cm | 3.3 cm |
| 3.4 cm | 3.3 cm | 1.2 cm | 2.3 cm | 3.1 cm | 5.3 cm |
| 5.5 cm | 3.8 cm | 2.2 cm | 3.5 cm | 5.4 cm | 6.6 cm |
| 6.0 cm | 4.1 cm | 3.1 cm | 4.1 cm | 6.3 cm | 7.2 cm |

Conclusion: I conclude animals grew the best just like I said in my hypothesis. I believe it’s due to the fact the extra things in the fertilizer helped the plant grow in height, color and health. They grew significantly more than the other liquids in all three categories