

FAIR TESTING

AIM – To see which kind of manure grows the biggest/heaviest/roundest swede. (Lots of discussion involving the word best)

HYPOTHESIS – I think that the horse manure will grow swedes the biggest because it makes good garden compost causing things to grow large and quickly. (Need to give a justified reason for choice.)

EQUIPMENT – (Brainstorm as a group)

1. Super dirt
2. Horse manure
3. Sheep manure
4. Chicken manure
5. Mushroom compost
6. 6 buckets
7. normal soil
8. swede seeds
9. watering can / water
10. hand drill
11. labels
12. gloves
13. scales for weighing the swedes/tape measure.
14. trowel or spade

METHOD (Brainstorm as a group using stickies)

1. Collect equipment
2. Drill holes in buckets
3. Label the buckets.
4. Put soil mixed with each of the manures, in a separate bucket.
5. Plant the seeds.
6. Water the seeds.
7. Thin out the weak seedlings leaving the strong one to grow.

8. Spray for insects.

CONTROL

Normal soil.

VARIABLES THAT CHANGE

1. Manure

VARIABLES THAT DON'T CHANGE (This is what makes it fair or not)

1. Size of the buckets.
2. Location of buckets.
3. Amount of seeds.
4. Amount of soil mixed with manure.
5. Same amount of water.
6. Same amount of insect spray.
7. Same amount of manure in each one.
8. Same size and amount of holes.

RESULTS (TABLE)

SWEDE GROWTH

	WEIGHT	POINTS	WIDTH	POINTS	TOTAL POINTS
Soil	3KG	3	23cm	1	4
Chick	4KG	4	48cm	4	8
S.D.	5.5KG	6	55cm	6	12
Horse	2KG	1	36cm	3	4
Mush	2.5KG	2	34cm	2	4

Sheep	4.5KG	5	54cm	5	10
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GRAPH

SWEDES GROWTH

CONCLUSION

I found that the super dirt grew the heaviest swede, therefore my hypothesis was wrong. This could be because super dirt is better suited than the other manures for growing vegetables. Some of the other manures may have been too strong and released nutrients quickly for fast growth in the leaves but did not release nutrients for slow continued growth for the actual vegetable. Because super dirt is small in composition it mixes easily with the soil rather than being in big clumps.

FUTURE FOCUS

I would use super dirt in the future to grow vegetables in my garden, to ensure I get large healthy vegetables.