



NATURAL COMPOST: COMBATTING CHEMICAL FERTILIZERS

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INTRODUCTION

The aim of our project is to also show and create awareness on how beneficial compost is. We also want to portray the high quality appearance of plants grown through compost look compared to man-made fertilisers hence encouraging more people to switch to composting.

RESEARCH QUESTIONS

1. What is the impact of compost manure on soil temperature?
2. How does organic manure affect soil moisture?
3. How does compost manure affect soil PH?

MATERIALS AND EQUIPMENTS

The following were used during the project:

- Shovel (to dig the hole)
- Leaves
- Soil
- Waste from school canteen
- Water
- Dung
- PH Meter (measuring PH, Moisture, Temperature, Light)

PROCEDURE

STEP 1: We dug a hole of 1 meter deep, 1 meter width, 1 meter length

STEP 2: We added the organic materials needed such as dry leaves, dung, remains of food like the peel bananas, water etc.

STEP 3: We covered the pit when full

STEP 4: We improved decomposition by watering the compost area

STEP 5 : We waited for decomposition to take place.

STEP 6: Used the compost for plants

STEP 7: Measured the soil of the plants with and without our compost using a PH meter.

STEP 8: Recorded the results and analysed them



RESULTS

As shown in the table below the soil without manure is at a temperature of 32°C while the soil with manure is lower at 29°C and 28°C. The pH of the soil without manure is 6.0 and the pH with manure is 6.7. The soil with manure has a lower light intensity compared to the soil without manure.

Amount of manure	Time	Temperature	Amount of light	P.H	Moisture
Without manure	2:45 pm	32°C	Low	6.0	Very wet
With manure	2:48 pm	29°C	Very low	6.7	Very wet
With manure	2:50 pm	28°C	Low	6.0	Very wet

CONCLUSION

The soil identified by the study that did not use manure were dry and had a low PH which would not be the most suitable living conditions for the vegetation.

The findings of our research have shown that the use of compost manure will enable plants to grow well acting as a natural fertiliser that can be used instead of chemical fertilizers have greatly contributed to the decrease in the overall wellbeing of humans and the environment.