



DIRT TO LIFE: INVESTIGATING AND IMPROVING SOIL HEALTH

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INTRODUCTION

"From Dirt to Life" is a comprehensive project aimed at investigating and enhancing soil health to promote sustainable agriculture, environmental conservation, and community well-being.

RESEARCH QUESTIONS

1. What are the key indicators of soil health, and how do they vary across different ecosystems and soil types
2. What role can regenerative agriculture play in enhancing soil health, mitigating climate change, and promoting sustainable food production systems?
3. What are the long-term effects of climate change on soil health, including alterations in temperature, precipitation patterns, and carbon sequestration rates

MATERIALS AND METHODS

- Beaker
- Universal indicator
- Test tube
- Spatula
- Acid test
- Camera
- Weighing Scale
- Vernier Nitrate Metre

PROCEDURE

Step 1: Collect Samples from different areas of our school compound.



Step 2: Samples collected weighed into 10g using a weighing scale.

The sample then dissolved in 60 mls of distilled water



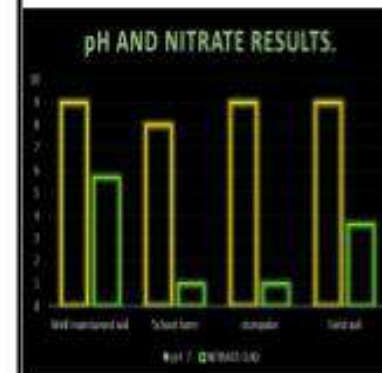
Step 3: Dissolved samples are then filtered. Then 5 mls of the filtrate is put in a test tube where 3 to 4 drops of universal indicator are added.



Step 4: Compare the filtrate colour change to a universal indicator PH scale



RESULTS



CONCLUSION

In conclusion, our project has shed light on the critical importance of soil health in agricultural sustainability and food security within the region. Through meticulous investigation and targeted interventions, we have uncovered the intricate dynamics of soil composition, fertility, and the impact of various agricultural practices on its health.