

443/3

AGRICULTURE PROJECT

Jan. - July 2025

(Declaration form)

THE KENYA NATIONAL EXAMINATIONS COUNCIL



Kenya Certificate of Secondary Education

443/3 AGRICULTURE PROJECT REPORT

DECLARATION BY CANDIDATE

This is to certify that this is a true project report of my Agriculture Project and that it contains the details of the operations.

Name of the Candidate	Index No.	Signature
Kanyotu Faith Njoki	11241001256	

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Enter the score awarded in the box below.

Agriculture Teacher

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Project Report

Grubbing of ✓ ①

Avocado Fruit Trees

(Persia americana)

Kanyolu Tairu

11241001256

Group 6

INTRODUCTION

Grafting - Is the practice of uniting two separate woody stems. The part bearing the root is referred to as rootstock.

The rootstock is the part bearing roots while scion is part bearing buds which develop into future plants.

Significance of Grafting

It helps repair damaged trees

Helps to shorten maturing age

Help to propagate clones that cannot be propagated in any other way

It makes it possible to grow more than one type of fruit on the same plant

It facilitates the changing of the top of the tree from being undesirable to desirable.

Identification of issue

The most pressing issue in the school community is scarcity of fruits. We only take fruits twice a week while it is possible to have a fruit after a meal.

To solve this issue we decided to carry out grafting of avocado fruit trees which maturing age is reduced.

Project objectives

To learn how to carry out grafting

To learn the precautions on grafting

To know the tools and materials used for grafting

To be able to graft

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Project description

To carry out the project we were divided into seven groups. My group is group 6 and the members are as follows.

1. Happiness perdo kyplo 1124100/248
2. Ivy klanjiku 1124100/249
3. Purity Hamisi 1124100/251
4. Kate kima 1124100/255
5. Bella Blessing 1124100/257

Each group was given a plot of land measuring 1m by 1m.

The method implemented on grafting was whip grafting. The scion chosen was same diameter as that of rootstock.

The equipments used in carrying out grafting include: Scapel, grafting tape and secateurs.

Budget

The budget for the project was as follows:

Item	Quantity	Unit cost	Total cost
Scapel	5	10	50
Klattering can	1	400	400
Grafting tape	20	20	400
Rootstock	20	100	2000
Scion	20	10	200
Sterilizer	10ml	150	150
Shade net	5m x 10m	3000	3000
Rake	1	500	500
Trainer		1500	1500

The total amount spent was 8,200f

Implementation plan and timeline

Activities	J	F	M	A	M	J	J
Instruction of project issued							
Identification of issue							
Individual presentation of project							
Preparation of a budget plan							
Group presentation							
Site selection							
Arrival of Oracudo seedling							
Preparation of nursery plots							
Training session with a grafting expert							
Fortnight report on PR							
Evaluation of project							
Monitoring and inspection							
Report writing							

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Project implementation and procedure.

Training Session - Training on grafting was carried out by an external officer.

Assembling of tools - The materials for grafting were sourced from a reliable source according to requirements needed and budget made per group.

Selecting of site - Site selected was located near the school garden of planting materials which was 1m by 1m. We were able to carry out some of nursery management practices such as watering.

Performing grafting - Once the trainer taught us on how to graft we tried grafting our own agriculture teacher took some videos as we carried out grafting.

Monitoring growth - This was carried out by all group members. We watered the plants early in the morning and later in afternoon so that the scion and rootstock would fuse together and become successful.

Caring for the plant - Each member was allocated different days to water and weed the plot of land that was allocated.

Reflection

After evaluation, grafting was very successful hence in the 1st phase. Process it showed a good percentage of survival where six trees out of ten trees survived. The avocado fruit trees showed increased growth rates.

Conclusion

Through this project I was able to carry out grafting. I learnt the precautions on grafting and I was also able to know and use the materials for grafting.

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Recommendation:

~~Grafting has increased production~~

Through grafting I have acquired skills and gained knowledge on productivity ? ?