

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
Ng'ang'a Graco Wambui	11241001008	

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Enter the score awarded in the box below.

Agriculture Teacher



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925074

TRACE

WAMBI

GRAFTING AVOCADO

FRUIT TREES
PERSEA AMERICANA

11241001008

GROUP 1

INTRODUCTION.

Grafting is the practice of uniting two separate woody stems. Usually one of the ~~two~~ parts provides the base and has a rooting system whereas the other part is obtained from another plant. The part with the rooting system is known as root stock, and the part which is grafted onto the root-stock is known as scion. ①

The scion has buds which develop into the future plant.

The ability of scion and root stock to form a successful union is termed as compatibility.

IDENTIFICATION OF ISSUES.

After a thorough research in the school community, I found out that students eat fruits twice in a week and they are supposed to eat daily so as to eat a balanced diet. I found out that grafting will solve everything by grafting avocado trees which will take $3\frac{1}{2}$ years to grow and it usually takes 7 years to grow when it is not grafted.

This will make the students to eat fruits daily and this is healthy for them.

PROJECT OBJECTIVES.

The objectives of the projects are:

By the end of the project I will be able to graft many avocado trees.

Know the various methods of grafting.

Know how to take care of seedlings. ②

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PROJECT DESCRIPTION

There are several methods of grafting:

- i) Whip or Tongue grafting
- ii) Side grafting
- iii) Approach grafting
- iv) Bark grafting
- v) Notch grafting.

We as the group 1 members which the group members are Natarha Muthama, Grace Wambui, Abigail Wacoke, Njoroge Shanon, Angel Sammy chose whip grafting because it is the simplest and the scion was compatible to the rootstock. The tools required are:- a grafting tape, scalpel, a secateurs, a scion and a root stock.

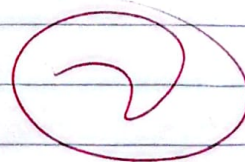
BUDGET

ITEM	QUANTITY	PRICE	TOTAL COST
Scalpel	5	10/=	50
Secateurs	3	800/=	2400
Grafting tape	2	500/=	1000
Training officer	1	1500/=	1500
Scion	20	10/=	200
Fertiliser	10ml	150/=	150
Placp	1	350	350
Shade net	5m x 10m	3000	3000
Root stock	20	100	2000
Water can	1	400	400
Total			11,050/=

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PROJECT IMPLEMENTATION, PLAN AND TIMELINE

Activity	J	F	M	A	M	J	J
Instructions of the project insurance							
Identification of the issue							
Individual presentation of the project							
Preparation of a Budget plan							
Group presentation of the project							
Site selection							
Arrival of avocado fruit tree seedlings							
Preparation of Nursery plots							
Training session with grafting expert							
Fortnight report on the project							
Evaluation of the Project							
Watering and inspection							
Report writing							



PROJECT IMPLEMENTATIONS AND PROCEDURE

Training sessions → Our Agriculture teacher brought an external officer who helped us. He taught us the grafting process which was whip grafting.

Assembling of tools → We assembled all our tools which were sourced from a reliable source to prevent transmission of diseases which were used during grafting.

Selecting the location of the planting material → We selected a well secure and shaded part around our school compound. We shaded to protect the seedlings from direct sunlight.

Performing grafts → Through the trainer, we performed whip grafting on the avocado seedlings and our teacher took part in the process by taking ideas of the grafting process we undertook.

(3) Monitoring growth → All my group members took part in this process by watering regularly to prevent them from drying up.

Caring for the plants → We removed weeds from the seedlings watering everyday. Each group member was given a specific day to water the plants.

REFLECTION AND EVALUATION.

- The project has been a successful practice since the avocado grafts have survived. The percentage of survival is they first have stunted growth but eventually through the post operation practices they have sprouted from 0-60.
- Since then the growth rate has been impressive.
- The trees had been thin but now the lateral buds have sprouted which are ever green.
- The avocado fruit trees are healthy.

CONCLUSION.

- In conclusion the project has a potential impact on the school community since the students will eat a well balanced diet due to availability of fruits.
- Despite the various attacks of pest and challenges faced the project has been a successful practice.
- The project has been a learning experience and growth progress since I am now able to carry out the grafting process on my own.
- There will be more supply to the various varieties in the market thus making the consumers to have been for preference and choice on which type of avocado fruit to consume.

RECOMMENDATION.

This grafting practices I recommend to anyone who wants to do planting of avocado trees especially to farmers since it is economical in terms of cost and space and also in order to provide more avocado fruits in the region and market.

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