

KOLA

SECONDARY

SCHOOL

NAME: STACY  
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INDEX NO: 1B30J307021

SUBJECT: AGRICULTURE

PAPER 3 (REPORT)

## GRAFTING AND BUDGING

Grafting is uniting two separate woody stems. one of the two parts provides the base and has a rooting system where as the other part is obtained from other plant.

There are methods of grafting.

They are as follow.

a) Whorl or Tongue Grafting.

- It is used for materials in which the scion and stock are of the same diameter.

b) Side Grafting.

It is practical when the stock has a large diameter than the scion.

The scion is inserted into the side of the stock.

Approach grafting:

Bark grafting.

Notch grafting.

Reasons important as why grafting is done.

They help to shorten the marketing age.

It helps to repair damaged trees.

Helps to propagate clones that cannot be propagated in any other way.

Helps them to grow more than one type of fruits or flower as the changing of the tree from being undesirable to desirable.

Budding is the practice of uniting a vegetable bud (scion) to a scion of another plant (root stock).

Method of Budding

V.T. Budding

Top Budding

Patch Budding

Importance of Budding and Grafting.

They facilitate the changing of the top of tree from being undesirable to desirable type of fruit or flower on the same tree.

They help to propagate clones that cannot be propagated in any other way.  
Grafting helps to repair damaged trees.

Poor health

Poor roads

Low Agricultural Produce

Low living standards

Scarcity of Water

Deforestation ✓

Famines

Unemployment

MALNUTRITION OF THE CHILDREN AND HYGIENE

high rate of the school dropout

high birth rates

Sexual immorality.

Early marriage

high death rates

Poor Roads ✓

## Poor HEALTH

Generally people in the surrounding society suffer from poor health this is because of poor living standards such that most of them do not afford a balanced diet this has led to reduced or low human labour. Through the knowledge of grafting fruit trees the society can generate income through selling of the grafted seedlings and grafted fruits.

## Poor ROADS

We also observed that leader roads in our society are very poor it has led to poor transport more so during rainy seasons. During rainy seasons normal roads prone to accidents of heavy slipping and this may cause death of driver or damage of the fruits. During dry seasons roads are dusty the dust tends to make the driver sick of which the time he takes to head be could have used it to transport of the people are educated on grafting of fruit trees because they need to use those roads when transporting those grafted fruits and seedlings from the general income they get other selling those grafted Seedlings and fruits. They are trees to make roads more passable for all which thus the problems of poor roads is solved.

## Low AGRICULTURAL PRODUCE.

When we visited the community around the

School we conducted some oral interview. We discovered that the Agricultural produce of the society generally is very low. This has led the found out that if the people are educated about fruit trees, they would be able to sell the grafted seedlings and fruits produced by fruits trees and the income generated could be used to buy food and sustain their families.

### LOW LIVING STANDARDS.

After touring our society around the schools, we discover that people have a low living standards which has led to isolation and depression. And through our project on grafting, we found out our problem can be solved. If the people had been educated about grafting, they can sell the grafted seedlings and fruits and the produced fruits can generate income and as well. The income generated can be used to improve their living standards.

eg Buying food, clothing, Constructing good houses and balanced.

### SCARCITY OF WATER.

We can notes that people in Somanya society are forced to walk for long distance search for water. This has led to a lot of pain and suffering to the people. Thus with the knowledge of grafting fruits tree can generate income through selling the

A lot of people are idle in the community surrounding our schools, this is affecting mostly the youth, for example, when I visited the Market Place during the day, we found many groups of young boys and girls doing nothing, nothing idleness can also lead to Community ~~SIT~~ Crimes such as Stealing where the can break into banks, markets or even Supermarkets to take some items so that they can fulfil their needs and if they are ~~caught~~ Caught Stealings, they can be fined by the law justice to death hence leading to poor population of youths in the society. Idleness can also lead to drug abuse which has resulted to drugs Addiction, for example at the Market Place there were many young boys who looked like real people but in their real sense, it's just the effect of they take, so we have decided that by educating the young about grafting of fruits, trees, they will have something to do so occupied during the day, thus the number of idles in the Market places and at home will reduce.

### UNEMPLOYMENT:

The most humbling thing that has been increase in the society. This is because of illiteracy and high rate of school drop out that has led to increase in Crime and low living standards to the people. This has

leads to more suffering in the community if the knowledge of grafting fruit tree a constructive activity that will make people to get money by selling the grafted fruit tree, people will get more to sustain their families on their daily living life. Using the method of grafted fruit trees to produce & to them by advising them to plant more fruit trees in their farm by Member ining everything requires like digging them out the weeds from the farm applying fertilizer Irrigating the grafted fruits that will make apple in the Market to buy By doing this it will reduce Poverty and the number of people who are ~~bordering~~ around in rural and urban areas Searching for job.

### MALNUTRITION OF THE CHILDREN AND BY CLIENT.

When we visited different home from the Society we discovered that children were suffering from malnutrition. This is a condition whereby children lack a balance diet and they are even unhealthy. This is because these parents were unable to provide a balanced diet. If the parents of the people of the Society have the knowledge of grafting fruits trees which after selling them they will be able to generate seedling from fruit trees.

The income generates will be used to buy food which will provide a balanced diet more so to the children and their families. On poor hygiene we visited the nearby hospital and after conducting oral interviews on the doctors about the health records of the people in the society, we discovered that most of the people in the society, we discovered that most of the people suffer from stomach related illness.

With the knowledge of grafting fruits trees was communicated earlier in my presentation the generated income will assist the community at large to improve their hygiene hence this will reduce malnutrition and encourage a healthy life.

#### HIGH RATE OF SCHOOL DROPOUT

One of the things that are really back the surrounding society is the school dropout. This is whereby young boys and girls stop going to school before completing the primary, secondary and tertiary education. This is caused by poor living standards which limit the parents from paying school fees for their sons and daughters. This unable to sustain them in school.

This has lead to generation parity in the surrounding society to be high through the knowledge of grafting fruits seedlings and the produced fruits the generated income can be used to pay school fees from their children thus sustaining them in school.

Again the parents will be able to provide all the basic needs required by the children thus minimising the number of school dropouts in the society surrounding our school.

### HIGH BIRTH RATES:

High birth rate of also evident in the surrounding society, this is caused by high rate of school dropouts. This has lead by Early marriage that encourage Poverty for example, lack of food, shelter, clothes and money for fees.

You find in the society young girls are engaged in early Marriages so that they can get the basic needs they wanted. Through the knowledge of grafting seedlings, Parents will be able to sell the grafted seedlings and the produced fruits. The generated income will be used to pay the school fees. Again the parents will be able to provide all the basic needs required for their children thus minimising the needs required the number of school dropouts, and control early Marriage to reduce high birth rate in the Community.

### SEXUAL IMMORALITY.

Through the oral interview Conducted it was also made known as that issue of Sexual Immorality is common in the society. This has been caused by high rate of school dropout

and low living standards. This has led to high death rate when people suffer from sexual transmitted diseases such as gonorrhoea, Syphilis, HIV and AIDS.

Through the knowledge of grafting fruits trees, the people in the society will learn to generate income through local means. This can be done by selling grafted seedlings or produced fruits. The generated income will allow the people in the society to get their basic need without engaging in sexual immorality.

### EARLY MARRIAGES:

Early marriage is another problem that is affecting the society around our school. This has lead to generation of poverty that is highly affecting the society at age. Through the knowledge of grafting, parents can generate income through selling the grafted seedlings or the fruits from the fruits trees. The generated income can be used to pay school fees for their children in this containing them to school missing early marriage.

### HIGH DEATH RATES:

We also noted that the death rate of the surrounding society is very high. This is caused by lack of finances to take sick people to better hospital and by drugs, and supplement their diets. This has led

to reduce human labour and increase income number of orphans.

Through the knowledge of grafting the members of the society will be able to generate income through selling of the grafted seedlings and the produced fruits. The healthy of their ~~be~~ be loved ones.

### SOIL CONSERVATION:

As we were moving around our surrounding society we discovered that soil erosion is highly pronounced. This is because of deforestation and loss of land cover. Generally some of the common types of soil erosion in the surrounding society includes sheet erosion, rill erosion, and gully erosion. This has lead to poor soils thus leading to low agricultural produce that makes the crops to grow very thin. Through the knowledge of grafting fruit trees the people in the society will be able to plant many grafted fruits trees whose roots will help to hold the soil particles together thus minimising soil erosion. Also the remaining fruit leaves decomposes thus adding fertility to the soil and conserving the soil.

### CRIME SUCH AS THEFT:

We also discovered that in our surrounding society crime rate is very high. This has caused a lot of insecurity in the society. Also it has led to high death rates. In the surrounding society thus reducing the number

of People who are loitering around. Through the knowledge of grafting fruit trees, People in the Society will have something to do thus making them to generate income through selling the grafted fruits and seedlings in our Markets and Society. The income generated can be used to reduce Crime Such as Stealing, Murders and even Corrupting other People in the Surrounding Society.

Groups discussion has been done in groups of four

Group	Member	Two.	
Mutukku	Teresa	lkunza	18307307 005
Koko	Reel	Musikali	183070307 009
Mwendwa	Phedelema	Mueni	183070307 015 ✓
Muendo	Stacy	Uthenga	18307307 024

After discussing on our Project of Growing Our Cakes, Some of the problems we encountered as listed above which I have is covered in the previous pages.

Low Living Standards

Malnutrition of the children and hygiene

Low agricultural produce.

Unemployment

High death rates ✓

Poor health.

Poor roads

Deforestation

Scarcity of Water

Idleness

School drop outs

Soil Conservation

Crime such as thefts

Early Marriages.

Groups Project Identification  
We identified our Project in a group of four as illustrated.

Group			
MEMBERS			
No.	NAME	INDEX	
1	MUENDA STACY NTHEMYA	18307307024	
2	MUTUKU TERESIA WANZA	18307307005	✓
3	Kioko RAEL Joy	18307307009	
4	MKIENDWA PHYDELINA MUENI	18307307015	

### PROJECT

#### Problem Implementation:

Grafting is ~~a technique~~ of uniting two living parts of different plants for ~~com~~mon use as one plant.

The plants is cut into two pieces where one part provide the base and has a rooting system where ~~as~~ the other part is obtained from another plants.

The part with the rooting system is root stock and the part which is grafted on to the root stock which develops into the future plant. Assureless for union between the Scion ~~and~~ the root stock is known as Compatibility.

There was an older man who had to graft them he grafted on one over and finally we used two methods of grafting to graft the plant where we used the scion and the root and the root block of the same

~~diameter.~~

- Problem and project identification - 30 mks
- Group discussion and presentation - 30 mks.
- Group project poster - 24 mks.
- Project implementation - 14 mks.
- Reporting on progress - 19 mks
- Project Report - 18 mks.