PENANG SANGAM HIGH SCHOOL P.O.BOX 44, RAKIRAKI

LESSON NOTES

Year/Level: 10

Week 11: 02/08/21 TO 06/08/21 Subject: AGRICULTURAL SCIENCE

STRANDSTRAND AS10.3 AGRONOMYSUB STRANDSUB - STRAND AS 10.3.2 HORTICULTURECONTENTAS 10.3.2.1. DISCUSS AND DEMONSTRATE METHODS OFLEARNINGPLANT PROPAGATION.OUTCOME

ASEXUAL PLANT PROPAGATION METHODS

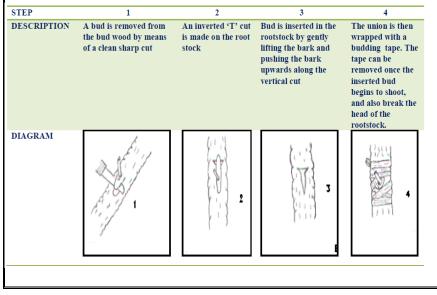
VOCABULARY

Scion - the upper part of the plant which usually contain branches and leaves and has high quality fruits.
Cambium - part of the stem and is the area of active growth and contains xylem and Phloem vessels.
Root stock - the lower part of the plant that is attached to the soil contains vigorous root system
Budding - the growing of the bud of one type of plant (the scion) on the stem of another plant (root stock)
Grafting - An artificial method of asexual plant propagation where a scion is attached to the root stock of different plant of the same species.

Layering - it is a practice of inducing root development on a stem, which is still attached to the parent tree.

Marcotting - It is also known as aerial layering where the root is induced on the stem or branch of the plant.

Rooting hormone - a chemical which is designed to increase the growth of roots on the plant. **BUDDING**

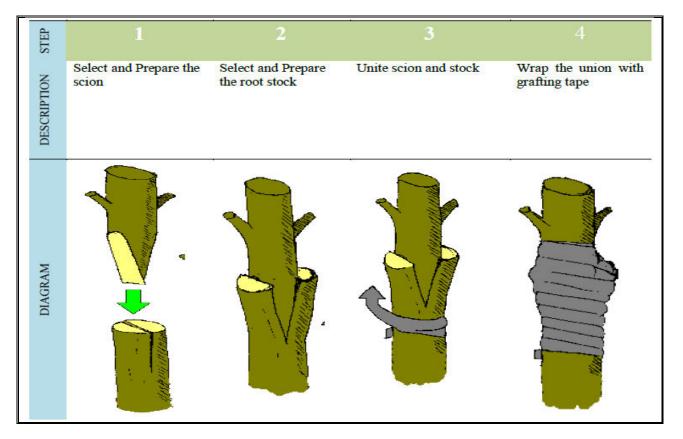


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1) <u>GRAFTING</u>

Tips for Successful Grafting

- ^Q Cambium layers of scion and root stock to be in contact for growth to take place.
- Wound to be sealed with grafting/budding wax to prevent infection.
- Union to be secured with a grafting/budding tape to avoid movement of the scion and root stock.
- Start of Rainy Season is the best time to do grafting
- Clear plastic is normally put on the scion to avoid dehydration



STUDENT ACTIVITY

Re-write the following steps of wedge grafting in correct order.

i. Select and prepare the root stock	
ii. Wrap the union with grafting tape	
iii. Select and prepare the scion	
iv. Unite scion and stock	

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