



TAVUA COLLEGE

Email: tavuacollege.3056@gmail.com

PHONE: 6680244 / 9369480

WEEKLY HOME STUDY PACKAGE - WEEK 2 (12/07/21 – 16/07/21)

Subject	AGRICULTURAL SCIENCE	Year/Level	10
Strand	AS 10.3 Agronomy		
Sub-strand	AS 10.3.1 Soils		
Content Learning Outcome	Discuss cultivation practices towards soil sustainability.		

LESSON 5: MINIMUM TILLAGE

At the end of this lesson the student will:

- define minimum tillage
- explain the importance of minimum tillage

SOLUTION

1. Define minimum tillage.

Zero (minimum) tillage or direct drilling is a way of growing crops or pasture from year to year with minimum disturbance to the soil.

2. Explain two reasons for practicing minimum tillage.

- Reduced susceptibility to land degradation through stubble retention.
- Higher levels of organic matter and biological activity which improves soil structure.
- Increases the amount of water that infiltrates into the soil.
- Increases cycling of nutrients in the soil.

3. Name 2 crops that can be grown under minimum tillage.

- All vegetables (cabbage, long bean, carrot, cucumber, watermelon, tomato, egg plant)
- Most crops (maize, rice, pulses)

4. Identify two conditions where minimum tillage can be practiced.

- Pulses like cowpea or Urd can be planted in the stubble of rice.
- Maize seeds can be spot planted after a legume.

5. State one way to control weed in minimum tillage.

Weeds are controlled through the use of physical (slashing or pulling) or chemical control (weedicides eg. Amine or durion powder)

