

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

LESSON NOTES

Week 7: 05/07/21 TO 09/07/21

Year/Level: 10

Subject: AGRICULTURAL SCIENCE

STRAND	STRAND AS10.3 AGRONOMY
SUB STRAND	SUBSTRAND AS 10.3.1 SOIL SCIENCE
CONTENT LEARNING OUTCOME	AS 10.3.1.2 Recognise and discuss soil erosion and methods of conserving soil for sustainability.

LESSON 2: SOIL CONSERVATION

LESSON OUTCOME:

1. Define soil conservation
2. Identify the methods of soil conservation
3. Describe the methods of soil conservation
4. Practice the methods of soil conservation

VOCABULARY

- Soil conservation - protecting soil from erosion.
- Soil productivity - how much a soil can produce (yield)

NOTES

Soil conservation practices are tools the farmer can use to prevent soil degradation and build organic matter.

REASONS TO PRACTICE SOIL CONSERVATION

- i. To maintain an adequate amount of organic matter and biological life in the soil.
- ii. To ensure a secure food supply at reasonable prices
- iii. Soil conservation is proven to increase the quality and quantity of crop yields over the long term because it keeps topsoil in its place and preserves the long term productivity of the soil.
- iv. To save farmers money
- v. Erosion is currently costing farmers in lost income due to lower crop yields and loss of nutrients from the soil.
- vi. To reduce erosion
- vii. To increase soil moisture
- viii. To maintain soil fertility

Factors that accelerate/speed soil erosion

- (i) Increased speed of water/wind
- (ii) Poor soil structure
- (iii) Loss of vegetative cover

How can soil erosion be reduced?

- (i) Decreasing the amount and speed of water or wind.
- (ii) Avoid the damage to soil structure and increase organic matter content
- (iii) Providing vegetative cover

Soil is a valuable resource and it needs to be protected from being lost. A farmer can protect the soil from being washed away by decreasing the amount and speed of water or wind, avoiding the damage to soil structure and increase organic matter content and providing vegetative cover.

Self-evaluation activity

- a) Explain one reason why farmers need to practice soil conservation?

- b) Describe the methods of soil conservation?

- c) Define soil degradation?

- d) Identify the methods of soil conservation?

- e) Differentiate between soil conservation and soil productivity?
