AGRICULTURE SCIENCE YEAR 9 LESSON PLANS

TOPIC; COCOA

WEEK 8

LESSON 1 OBJECTIVES

At the end of this lesson students should be able to:

1. state the advantages and disadvantages of direct cocoa planting

2. must know the sowing technique

3. be able to do ring weeding 1 m in diameter

ACTIVITIES

Take down notes on pages 28 and 29

1. list 3 advantages and 3 disadvantages of sowing seeds directly

2. demonstrate the sowing technique

LESSON 2 OBJECTIVES

At the end of this lesson students should be able to:

1. explain how to control weeds manually and using herbicides

2. explain how brushing is done

3. explain the importance of shade thinning

4. demonstrate the correct methods of pruning

ACTIVITIES

Take down notes on pages 30 and 31

1. list 2 importance of pruning

2. explain the terms brushing and pruning

LESSON 3 OBJECTIVES

At the end of this lesson students should be able to:

1. define the term mulching

2. list 4 advantages of mulching

3. name 2 pests and give their effective controls

ACTIVITIES

Take down notes on pages 32,33 and 34

WEEK 9

LESSON 1 OBJECTIVES

At the end of this lesson students should be able to:

1. name 3 diseases of cocoa and give their effective controls

2. briefly explain the timing of harvest

3. briefly explain the correct methods of harvesting

ACTIVITIES

Take down notes on pages 35 and 36

Draw diagrams to illustrate how harvesting is done

LESSON 2 OBJECTIVES

At the end of this lesson students should be able to:

1. demonstrate the correct and incorrect methods of harvesting

2. demonstrate the correct ways of breaking pods

3. know how to sort out good seeds

ACTIVITIES

Take down notes on pages 37 and 38

Look for a cocoa pod and see if you can open it correctly

See how the deeds are arranged in a pod

LESSON 3 OBJECTIVES

At the end of this lesson students should be able to:

1. define fermentation

2. list 3 reasons for fermenting

3. describe 4 changes that take place during fermentation

4. explain the box method used for fermentation

ACTIVITIES

Take down notes on pages 39 and 40

Draw appropriate diagrams to show the box method

WEEK 10

LESSON 1 OBJECTIVES

At the end of this lesson students should be able to:

1. explain the procedure for smallholder farmers carrying out fermentation

2. describe if fermentation has been completed

ACTIVITIES

Take down notes on pages 4 and 42

Draw appropriate diagrams to illustrate the above

LESSON 2 OBJECTIVES

At the end of this lesson students should be able to:

1. describe sun drying and hot air drying of beans

2. know the procedure for both methods

ACTIVITIES

Take down notes on pages 43 and 44

Learn the procedure

LESSON 3 OBJECTIVES

At the end of this lesson students should be able to:

1. demonstrate the correct method of bean storage

2. select the correct area for storage

3. describe how beans are graded and marketed

ACTIVITIES

Take down notes on pages 45 and 46 and answer these questions

1. name 4 types of beans which should not be stored

2. list 5 important points for storing beans

3. state 2 things to consider when grading beans

WEEK 11

LESSON 1 OBJECTIVES

At the end of this lesson students take down a glossary of terms provided.

Students need to learn these terms as it is frequently used

STUDENTS WILL PREPARE FOR TOPIC TEST FOR THIS WEEK

WEEKS 12 AND 13

THESE TWO WEEKS ARE LEFT FOR REVISION

TERM 2 TOPIC. CATTLE

WEEK 1 LESSON 1

At the end of this lesson students should be able to:

1. list 4 reasons why keeping cattle is important to Vanuatu

2. draw and label the external features of cattle

ACTIVITIES

1. Take down notes on cattle pages 4 and 5

2. be able to draw and label the external features and learn

LESSON 2 OBJECTIVES

At the end of this lesson students should be able to:

1. draw the digestive system of cattle and label

2. briefly describe the functions of the digestive system

ACTIVITIES

1. Take down notes on pages 6, 7 and 8

2. draw the diagrams provided on page 6 and learn the parts

LESSON 3 OBJECTIVES

At the end of this lesson students should be able to:

1. draw the diagrams the male and female reproductive system and label correctly

2. list the functions of the male and female reproductive organs

ACTIVITIES

1. Take notes on pages 9 and 10

2. draw appropriate diagrams on page 9 and learn

WEEK 2

LESSON 1.

At the end of this lesson students should be able to:

1. choose an animal with correct conformation

2. use land, labor, location, market, water and management to start a cattle fa

ACTIVITIES

1. Take down notes on pages 11, and 12

LESSON 2 OBJECTIVES

At the end of this lesson students should be able to

1. know the animal requirements

2. importance of proteins, vitamins, and water for animals

3. define pasture

4. name 5 native grasses, 5 legumes and 5 weeds

ACTIVITIES

Take down notes on pages13 and 14 part B pasture

Learn the importance of food and water for animals

LESSON 3 OBJECTIVES

At the end of this lesson students should be able to:

1. define imported feeds

2. explain pasture management

3. describe the importance of weed control

4. define stocking rate

ACTIVITIES

Take down notes on pages 14 and 15

Focus on the objectives and learn

WEEK 3

LESSON 1 OBJECTIVES

At the end of this lesson students should be able to:

1. describe how to prepare land for pasture planting

2. learn how to sow seeds or use vegetative propagation to plant pasture

3. identify 5 grasses 5 legumes and 5 weeds

ACTIVITIES

1. Take down notes from page 16 and note names of pastures , grasses, legumes and weeds from pages 17 to 26

2. Collect and identify some grasses weeds and legumes

LESSON 2 OBJECTIVES

At the end of this lesson students should be able to:

1. describe 3 methods of breeding

2. briefly discuss 5 factors in good herd improvement

3. classify animals according to Bos Taurus and Bos indicus

ACTIVITIES

1. Take down notes on pages 27 and 29

2. Observe how animals breed in the village

LESSON 3

At the end of this lesson students should be able to:

1. describe the advantages and disadvantages of keeping local and exotic breeds of animals

2. list the characteristics of the Brahmin, Charolais, Limousin and Hereford breeds

3. describe the characteristics of the Jersey breed

ACTIVITIES

1. Take down notes from page 30

2. look and identify some breeds of cattle in the village

WEEK 4

LESSON 1 OBJECTIVES

At the end of this lesson students should be able to:

1. differentiate between Friesian and hybrids

2.define and briefly explain the terms oestrous cycle, oestrous, gestation and lactation

3. list the advantages of Artificial insemination

ACTIVITIES

1.Take don notes on page32

2. learn the definitions above

LESSON 2 OBJECTIVE

At the end of this lesson students should be able to:

1. list the disadvantages of Artificial insemination

2. describe the procedure for performing Artificial insemination

3. know the work of Vanuatu Livestock Department

ACTIVITIES

1. Take down notes on page 33

2.learn the procedure for performing A I

LESSON 3 OBJECTIVES

At the end of this lesson students should be able to :

1. briefly describe 6 behaviour in herd management

2. describe how to separate stock into groups of animals

3. learn how to domesticate their animals

ACTIVITIES

1. Take down notes from page 34

2 Observe bahaviour patterns of animals

Week 5

LESSON 1 OBJECTIVES

At the end of this lesson students should be able to:

1. state the reasons for over or under grazing

2. understand how to control breeding stock

3. state the 5 characteristics of selecting breeding animals

ACTIVITIES

1. Take down notes on page 35

2. draw the diagram of a healthy animal

LESSON 2 OBJECTIVES

At the end of this lesson students should be able to:

1. describe the characteristics of breeding females

2. know how to manage breeding animals

3. describe the process of parturition

ACTIVITIES

1. Take down notes on page36

2. draw the diagram to show the correct position at calving

LESSON 3 OBJECTIVES

At the end of this lesson students should be able to:

1. define identification

2. explain the types of identification

3. briefly explain weaning and castration

4. list 3 purposes of castration

ACTIVITIES

1. Take down notes from page 38

2. Study all notes for this lesson.