

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

School: Penang Sangam High School
Subject: Agricultural Science
Year/Level: 11

Week 24

Strand	Strand as 11.4 LIVESTOCK
Sub Strand	Sub-strand 11.4.1 GENERAL
Content Learning Outcome	The students will explore on the livestock concepts common to sheep, pig , and goat in Fiji .

Lesson 4: Classes of goats on Fiji farms

Vocabulary

- Does - adult female goat. Also called a nanny.
- Bucks - adult, intact or whole male goat. Also called a billy or ram
- Wether - a castrated male goat.
- Goating - a female goat between one and two years old
- Kid - a young goat, less than 6 months of age. A soft leather made from goat skin.

Notes

Goats are divided into classes based on their age and function on a farm.

The four main breeds introduced to Fiji are compared below.

	Anglo-Nubian	Saanen	Alpine	Boer
Buck				
	http://www.wolfcreekranch1.tripod.com * Weigh at least 79 kg * Minimum height 89 cm	http://www.highuintapackgoats.com o Weigh on average 73 kg o Average height of 81 cm	http://www.highuintapackgoats.com • Weigh on average 70 kg • Average height 80cm	http://www.boergoats.co.za • Weigh 110–135 kg • Height 90 cm

Wether	 http://3.bp.blogspot.com	 http://www.highuintapackgoats.com	 http://www.missouridairygoats.com	 http://www.bellgoatfarm.com
Doe	 http://www.glenafon.webs.com <ul style="list-style-type: none"> * Weigh at least 61 kg * Minimum height is 76 cm * Milk has high butterfat content but produces less milk than other dairy breeds. * Multiple births common 	 http://www.theselfsufficientliving.com <ul style="list-style-type: none"> o Weigh at least 61 kg o Minimum of 76 cm tall o High milk production but lower butterfat content o Multiple births common 	 http://www.extension.org <ul style="list-style-type: none"> ▪ Weigh around 61 kg ▪ Average height 0.8 m ▪ High milk production and high butterfat content ▪ Multiple births common 	 http://www.boergoats.co.za <ul style="list-style-type: none"> ❖ Weigh 90–100 kg ❖ Average height 80cm ❖ Medium milk production ❖ High quality and quantity meat production ❖ Multiple births are common
Goatling	 www.rarebreeds.co.nz/	 www.flickr.com	 missouridairygoats.com	 bellgoatfarm.com
Kid				

Lesson 5: Importance of Goats

Vocabulary

- Mohair - a silk-like fabric or yarn made from the hair of the Angora goat
- Herder - a person in charge of a herd, especially of cattle or sheep

Notes

Advantages of raising goats	Disadvantages of raising goats
Goats are a source of Meat, Milk, Skin and leather, Cashmere, Mohair, Manure	Due to their browsing habits, goats need a lot of feed each day.

Goats acclimatise well in Fiji especially in the drier zones like Western Viti Levu	Goats are very inquisitive so will eat almost any kind of green feed including farmed vegetables and crops.
When well-managed, goats do not catch many diseases and pests. However, they need to be kept dry to avoid chilling and foot rot	Goats learn routines quickly and will shun new herders and create a lot of noise until satisfied.
Goats are browsers and can eat a wide range of low grade feed like mature grass, crop residues, leaves and the bark of trees	Goats are very clever so can find ways out of confined areas like climbing over or burrowing under fences and opening doors and gates
Goats are very social animals and readily adapt to farm routines. They adopt their herders and respond to commands and gestures	Goats will readily break out of confined areas and revert to living in the feral state.
Goats require small areas for housing	Bucks produce a strong musk during the mating season.
Goats can survive on fresh and brackish water	
Goats make good companions and family pets	

Lesson 7: Raw Products from Goat Farms

Vocabulary

- Chevon - the flesh of adult goats as food; goat meat.
- Cabrito - the meat of a kid
- Cashmere - very soft, expensive wool material that is made from the hair of goats from Kashmir.

Notes

Humans find both living and dead goats useful. Goats are:

- a renewable provider of milk, manure, and fiber.
- used for driving and packing purposes.
- used for meat and hide.
- intestines are used as material for catgut and stings for musical instruments.
- horns signify plenty and wellbeing and are used to make spoons.

Student Activity

Explain why goat meat and milk are considered healthy foods when compared to meat and milk from other mammals.

Lesson 9: Goat By-products

Vocabulary

- Catgut - a type of cord that is prepared from the natural fibre found in the walls of animal intestines including sheep, goats, cattle, pigs, horses, mules, or donkeys.
- Biogas - any gas fuel derived from the decay of organic matter.

Notes

Leather 	Angora goat skin 	Wool 	Manure 
Catgut 	Paint 	Blood and bone meal 	Biogas 