## Penang Sangam High School P.O. Box 44, Rakiraki Year 12 Agriculture Lesson Notes Week 7

Strand	AS 12.3 Agronomy		
Sub-Strand	AS 12.3.2.3: Ornamental Horticulture		
Content Learning	Deliberate on Ornamental Horticulture by investigating, selecting and		
Outcome	practicing appropriate husbandry methods on selected ornamental plants.		
Lesson 1: Introduction Lesson Outcome: Dis	<u>1</u> cuss the Origins of Ornamental	Horticulture	
Ornamental Horticulto protected and improve Ornamental plants are characteristics.	are developed from forest garded ed useful plant species while els used for their flowers, their tex	ening around 10000 BC when families identified, iminating undesirable species xture, form and shape, and other aesthetic	

LAYERS OF A FOREST GARDEN Canopy Sub-Canopy Herbaceous	Lesson 2: Classification of Horticultural Plants Lesson Outcome: Discuss some ways in which horticultural plants are classified. <u>Xerophyte</u> – plant stores water in leaves & stems & adapted to live in arid environments i.e. require less water to survive eg. pine and cactus	2020 - MC No. 13
Climbers Cover Rhizosphere	<ul> <li><u>Hydrophyte</u> – plant which only grows in or on water eg. water hyacinth</li> <li><u>Mesophyte</u> – plant needing only a moderate amount of water eg. grass, herbs</li> </ul>	2017 – MC No. 12

## **Classification of Plants**

Classification		Description	Example
Growth habit	Herbaceous or herbs	succulent seed plants possessing self-	Celery
		supporting stems	
	Climbing plants	a climbing or trailing plant. It may be	Bougainvillea
		soft stemmed [vine] or hard stemmed	
		[liana].	
	Trees	Plants having a single central axis	Coral tree (Drala)
	Shrubs	plant having several upright stems	Hibiscus

	Deciduous plants	plants which seasonally lose leaves	Kapok tree
Leaf drop	Evergreen	plants which retain functional leaves	Sandalwood trees
		throughout the year e.g. Sandalwood	
	Annual	a plant that completes its life cycle,	Lettuce, watermelon,
Life span		from germination to the production of	marigold and common
		seed, within one year, and then dies.	sunflower
	Biennial	a flowering plant that takes two years to	Anthurium
		complete its biological lifecycle	
	Perennial	a plant that lives for more than two	Frangipani
		years	
	Tender plant	damaged or killed by large temperature	Sunset bells
Temperature	XX 1 1	variations	
tolerance	Hardy plant	a plant that withstands changes in	Eastern woodfern
TT (		temperature.	D 1 // 1 1
Temperature	Cool season plant	prefers cool temperatures	Peas, lettuce and cole
requirements	Warm accord along		crops
	Warm season plant	is recentive to each and their in	Pepper, eggplant
Suplicht intensity	Photophilous plant	is receptive to, seeks and thrives in	Barrel cactus, Aloe vera
requirements	Scionhilous plant	is recentive to seeks and thrives in less	Panhionadilum orchid
requirements	Sciopinious plant	direct suplight or shade	lalabe (edible fern)
	Veronhyte	survive in an environment with little	Caccti
	Actophyte	water, such as a desert or an ice- or	Caeen
Habitat or site		snow-covered region	
preference	Hydrophytes	plants that grow partly or wholly in	Water hyacinth
protototo	injaropinjuos	water whether rooted in the mud. as a	water nyaemur
		lotus, or floating without anchorage.	
	Mesophytes	terrestrial plants adapted to moderate	Palms
		water conditions	
pH preference	Acid tolerant	certain plants tolerate a range of soil pH	Hydrangea flowers
		values.	
	Salt tolerant plants	Halophytes: Plant that grows in high	Red mangrove
		salinity waters	
$2019 - MC N_{\odot}$		Glycophytes: Grows in low sodium	White mangrove
		content soil	_

<ul> <li><u>Four different categories of hydrophytes</u></li> <li><u>Floating plants</u> - roots hang in water from floating green portions. e.g. water hyacinth</li> <li><u>Marginal plants</u> - grow in shallow water or in moist soil. e.g. water sedge</li> </ul>	1. Differentiate between a photophilous plant and sciophilous plant in relation to site selection for propagation.
<ol> <li><u>Deep water plants</u> - roots are anchored on river or pond bed. e.g. Gloriosa [water lily]</li> <li><u>Oxygenating plants</u> - submerged aquatic plants that release oxygen in water. e.g. Ancharis</li> </ol>	2. Differentiate between a halophyte plant and a glycophyte plant in relation to saline growing conditions.