

Field Manual

Student Project No. 3: Botany at Victoria Peak

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March 2004

	<p>Partial support from Chinese University of Hong Kong and Quality Education Fund</p>	
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A Web-based Database and Training for Hong Kong Flora and Vegetation Field Trip to Victoria Peak for Botany at the Peak

Introduction

Victoria Peak is the tallest peak on Hong Kong Island, reaching 554 m above sea level. It has been well protected from fire and cutting in the last few decades. More than 400 species of herbs and small trees are found along Lugard Road and Harlech Road, and are maintained by the underground water and morning fog (霧).

This exercise aims to provide a general background on the botany at the Victoria Peak.

Students are suggested to

- (a) look for the plants that demonstrate certain features and functions,
- (b) take a photo of the plant or plant parts concerned (but not detaching or picking any plant part), and
- (c) summarise the features or functions in short phrases or use them as captions for the photos. When finished, students can submit their reports and photos to <webmaster@hkflora.com> or send them to Hong Kong Flora and Vegetation Team, Department of Biology, Chinese University of Hong Kong, Shatin, N.T., Hong Kong. We shall arrange to have them loaded on the website.

General information

Date: _____

Place: _____

Time: _____ (start) to _____ (finish)

School name: _____

Teacher name: _____

Student name: _____

Exercise

Study the plants that demonstrate certain features and functions on site, and fill in the following tables.

(A) Plant Biodiversity (植物生物多樣性)

	Diversity	Plant name	Adaptation(s) / Function(s)	Photograph number
(a)	Virus (病毒) or Viral infection (病毒感染)			
(b)	Alga (藻類)			
(c)	Lichen (地衣)			
(d)	Fungus (真菌)			
(e)	Bryophyte (苔蘚)			
(f)	Fern (蕨類)			
(g)	Gymnosperm (裸子植物)			
(h)	Angiosperm - dicotyledon (雙子葉植物)			
(i)	Angiosperm - monocotyledon (單子葉植物)			

(B) Plant Forms (植物形態)

	Habit (習性)	Plant name	Adaptation(s) / Function(s)	Photograph number
(a)	Herb (草本植物)			
(b)	Shrub (灌木)			
(c)	Tree (喬木)			
(d)	Vine (藤本植物)			
(e)	Epiphyte (附生植物)			
	Plant Parts (植物部份)	Plant name	Adaptation(s) / Function(s)	Photograph number
(a)	Root (根)			
(b)	Aerial root (氣生根)			
(c)	Buttress root (板根)			
(d)	Stem (莖)			
(e)	Simple leaf (單葉)			
(f)	Compound leaf (複葉)			
(g)	Flower (花)			
(h)	Fruit (果實)			
(i)	Seed (種子)			

(C) Plant Functions (植物功能)

1) Photosynthesis (光合作用)	Plant name	Adaptation(s) / Function(s)	Photograph number
(a) Green leaf			
(b) Variegated leaf (斑葉/花葉)			
2) Protection	Plant name	Adaptation(s) / Function(s)	Photograph number
(a) Spiny or thorny (有刺的)			
(b) Hairy			
(c) Poisonous (有毒的)			
3) Reproduction	Plant name	Adaptation(s) / Function(s)	Photograph number
(a) Fern sorus (子囊群)			
(b) Cone or strobilus (孢子葉球)			
(c) Insect-pollinated flower			
(d) Wind-pollinated flower			
(e) Vegetative growth			

(C) Plant Functions (植物功能) (continued 繼續)

4)	Dispersal (散播)	Plant name	Adaptation(s) / Function(s)	Photograph number
(f)	Animal dispersal			
(g)	Wind dispersal			
(h)	Water dispersal			

(D) Plant Ecology (植物生態)

	Ecology	Plant name	Adaptation(s) / Function(s)	Photograph number
(a)	Soil			
(b)	Shade, humidity, and direction			
(c)	Weeds (雜草)			
(d)	Plant-animal interaction			