



可觀自然教育中心暨天文館  
Ho Koon Nature Education cum Astronomical Centre  
(Sponsored by Sik Sik Yuen)

## Biology Field Study Course Certificate Level

# Biodiversity Survey

Name : \_\_\_\_\_

Date : \_\_\_\_\_

Group : \_\_\_\_\_

### Schedule :

9:00 - 10:00	Briefing
10:00 - 12:00	Field work
12:30 - 13:30	Lunch
13:30 - 14:20	Data analysis
14:20 - 15:00	Prepare presentation
15:15 - 16:30	Presentation and summary

### Aims :

After the course, students should be able to :

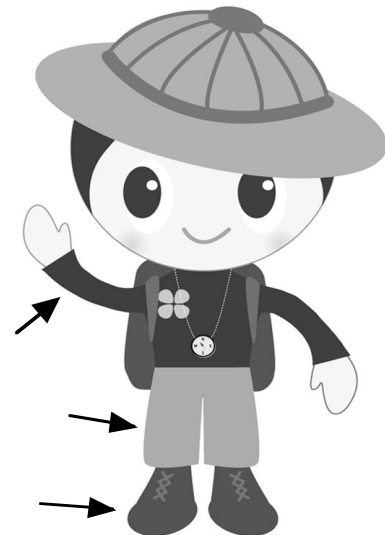
1. measure abiotic factors of an ecosystem,
2. classify some common local organisms,
3. describe how are the organisms affected by abiotic factors,
4. construct a simple dichotomous key,
5. organize and analyze data,
6. appreciate the nature and respect living things.

### Clothing:

1. Long-sleeved shirt for better protection against mosquito and insect bites, as well as sunburn.
2. Trousers for better protection against injuries and mosquito and insect bites. Shorts are not recommended.
3. A pair of shoes for preventing injuries. Slippers and sandals are not recommended.

### Equipment and references :

		Out	In
1	Wildlife Pictorial Guide		
2	Insect Portfolio 1 & 2 (Book)		
3	Bird Watching in the Big City (Book)		
4	Hillsides (Book)		
5	Hong Kong Trees (Book)		
6	A Colour Guide to HK Animals (Book)		
7	Magnifying Glass		
8	Telescope		
9	Anemometer		
10	Compass and nylon thread		
11	Light meter		
12	Thermohygrometer		



## Procedure

### A. Description of habitat

Briefly describe the 2 survey sites, including their topography, vegetation and geology, etc., and draw sketch maps.

Site 1	Site 2
Brief description	Brief description
Sketch map	Sketch map

### B. Measure abiotic factors

Use appropriate equipment to measure the following abiotic factors of the 2 sites:

	Site 1	Site 2
Wind direction & speed		
Average air temperature		
Average air humidity		
Average light intensity		



## D. Investigate relationships of organisms

Look for examples of the following relationships in the 2 survey sites, note the involved organisms.

1. Competition e.g.1 \_\_\_\_\_

e.g.2 \_\_\_\_\_

2. Parasitism e.g.1 \_\_\_\_\_

e.g.2 \_\_\_\_\_

3. Predation e.g.1 \_\_\_\_\_

e.g.2 \_\_\_\_\_

4. Herbivory e.g.1 \_\_\_\_\_

e.g.2 \_\_\_\_\_

5. Commensalism e.g.1 \_\_\_\_\_

e.g.2 \_\_\_\_\_

6. Mutualism e.g.1 \_\_\_\_\_

e.g.2 \_\_\_\_\_

### Questions for discussion :

1. Which site has higher biodiversity? Explain the reasons causing the difference.
2. Choose 8 or more animals, use their morphological features to construct a dichotomous key.
3. Draw a food web to show the feeding relations between the recorded organisms.

~ End ~