Diploma of Secondary Education Geography Field Studies Course



Changes of Rural Village

Version 1.0

Objectives

- 1. To identify the characteristics and distribution of agricultural land uses in rural village.
- 2. To analyse the changes of rural land uses under urban expansion.

Equipment List

Items	Quantity	Checked	Returned
1. Base map (Individual)	x1		
2. Clipboard (Individual)	x1		
3. Compass (Individual)	x1		
4. Colour pencils	x1	٠	٥
5. Sound meter	x1		
6. Carbon dioxide meter	x1		
7. Dust particulates meter	x1		٠

Field Work

- 1. With reference to the map 4.1, walk along the assigned route in Tai Kong Po.
- 2. Identify the land uses located at both sides of the route. Land use types are suggested as
 - a) Arable farming
- b) Livestock rearing
- c) Abandoned land
- d) Residential land use

- e) Industrial land use and storage
- f) Other land uses
- 3. Record and color the land uses on the map 4.1.
- 4. Measure the highest values of noise level and air quality over one minute at checkpoints. Scale the water quality by observation. Record the results at Table 1.
- 5. Count the abandoned sites and record the results at Table 2.

Data Sheet

Route: A / B / C

Table 1 - Pollution Level in Tai Kong Po

	Checkpoints	X	1	2	3	4	5	6	7	Y
Measurements with Equipments										
Noise Pollution	1. Noise Level (dB)									
Air	2. Carbon Dioxide (ppm)									
Pollution	3. Dust Particulates (µg/m)									
Scale Valu	Scale Values (Mark NA if no river found nearby)									
	4. Smell									
Water	None Strong 1 2 3 4 5									
Pollution	5. Turbidity									
	Clear High 1 2 3 4 5									

Route: A/B/C

Table 2 - Abandonment in Tai Kong Po

	Marks - //// - ////
1. Abandoned Farmland	
2. Abandoned Pigsties/ Chicken Sheds	
3. Abandoned Houses	
4. Others	

Data Analysis

- 1. Draw transects of the assigned route in Tai Kong Po.
- 2. Draw a diagram to show the distance percentages of different land uses in Tai Kong Po.
- 3. List the distance percentages of various land uses in desending order.

Route: A / B / C

1.	(%)	2	(%)	3.	(%))
4.	(%)	5	(%)	6.	(%))

Discussion

1. Refer to the collected data and map evidence, describe and explain the distribution of the farming activities.
2. Refer to the collected data and aerial photos, describe and explain the changes of agricultural land use in Tai Kong Po
3. More land is abandoned in the area with poor transport development. Do you agree with the statement? Quote evidence to support your answer, and explain the result.
4. Name the type of urban expansion in Tai Kong Po. Explain how the local transport development affects the process.

5. Discuss the impacts of urban expansion on Tai Kong Po.
6. As a rural representative in Tai Kong Po, what would you suggest to improve the local environment to acheieve sustainable development?