



Changes of Rural Village

Enquiry Skills Approach Version 2.0

A. Planning and Preparation

Module

1. Building a Sustainable City
2. Combating Famine

Enquiry Question

Hypothesis 1 : *The higher the accessibility, the less the agricultural land use.*

Hypothesis 2 : *Abandoned land decreases with decreasing distance from the main road.*

Hypothesis 3 : *Environmental pollution increases with decreasing distance from the main road.*

Key Concepts

Rural area	Urban encroachment	Urban sprawl	Land use change
Land speculation	Arable farming	Livestock rearing	Environmental pollution

Scope of the Study

Tai Kong Po Village in Kam Tin

Time of the Study

Date: _____ Weather condition: _____

Think About

List the safety risks when conducting the fieldwork in rural area.

Data Recording sheetRoute: A / B**Table 1 - Environmental Quality of Tai Kong Po**

Distance from the starting point (m)		210 (1)	420 (2)	630 (3)	840 (4)	1050 (5)	1260 (6)	1470 (7)
Measurements with Equipments								
Noise Level	1. Noise Level (dB)							
Air Quality	2. Dust Particulates ($\mu\text{g}/\text{m}^3$)							
Scale Values (Mark NA if no river found nearby)								
Water Quality	3. Smell None Strong 1 2 3 4 5							
	4. Turbidity None High 1 2 3 4 5							

Table 2 -Tally of abandoned land

Distance from the starting point (m)	0 – 210 (0) – (1)	210 – 420 (1) – (2)	420 – 630 (2) – (3)	630 – 840 (3) – (4)	840 – 1050 (4) – (5)	1050 – 1260 (5) – (6)	1260 – 1470 (6) – (7)
Tally of abandoned land (e.g. <i>///</i>)							
1. Abandoned Farmland							
2. Abandoned Pigsties/ Chicken Sheds							
3. Abandoned House							
4. Others							
Total							

Table 3 - Aerial Photo

Secondary Data Items	Aerial Photos in Tai Kong Po	
	Year: _____	Year: _____
1. Agricultural land use		
2. Residential land use		
3. Others		

C. Data Processing, Presentation and Analysis

1. List the distance percentages of the land uses along the route in descending order.

Route: A

- 1. Land use: _____ (%)
- 2. Land use: _____ (%)
- 3. Land use: _____ (%)
- 4. Land use: _____ (%)
- 5. Land use: _____ (%)
- 6. Land use: _____ (%)

Route: B

- 1. Land use: _____ (%)
- 2. Land use: _____ (%)
- 3. Land use: _____ (%)
- 4. Land use: _____ (%)
- 5. Land use: _____ (%)
- 6. Land use: _____ (%)

2. Draw the most appropriate diagrams to present the collected data.

Think About

List the merits and demerits of using the chosen diagrams.

D. Interpretation and Conclusion

1. (a) Does the fieldwork result support the hypothesis 1 ***The higher the accessibility, the less the agricultural land use?*** Support your conclusion with the primary data and secondary data.

(b) With the collected data and graph, describe and explain the distribution of the arable farming and livestock rearing in Tai Kong Po.

2. Does the fieldwork result support the hypothesis 2 **Abandoned land decreases with decreasing distance from the city center**? Support your conclusion with the collected data and graphs.

3. Does the fieldwork result support the hypothesis 3 **Environmental pollution increases with decreasing distance from the city center**? Support your conclusion with the collected data and graphs.

E. Evaluation

1. Other than the data collected in this course, suggest other enquiry question, data and information you might need for a fieldwork in the field site. Explain your answer.
