



# Changes of Rural Village

Enquiry Skills Approach v2.0

## A. Planning and Preparation

### 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.

### Scope of the Study

1. Tai Kong Po Village in Kam Tin

### Field Work Plan

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 for 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.

### Think About

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

## B. Data Collection

### Data Items

1. Land uses
2. Abandoned sites
3. Noise level
4. Dust particulate
5. Water quality

### Data Collection Method

1. Stratified Systematic Sampling

### Equipment List

Items	Quantity	Checked	Returned
1. Base map (Individual)	x1	<input type="checkbox"/>	<input type="checkbox"/>
2. Clipboard (Individual)	x1	<input type="checkbox"/>	<input type="checkbox"/>
3. Compass (Individual)	x1	<input type="checkbox"/>	<input type="checkbox"/>
4. Colour pencils	x1	<input type="checkbox"/>	<input type="checkbox"/>
5. Sound meter	x1	<input type="checkbox"/>	<input type="checkbox"/>
6. Dust particulates meter	x1	<input type="checkbox"/>	<input type="checkbox"/>

### Think About

List the advantages and disadvantages of collecting quantitative data items.

List the reasons of using stratified systematic sampling.

## Data Recording 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 Quality	2. Dust Particulates ( $\mu\text{g}/\text{m}^3$ )									
Scale Values (Mark NA if no river found nearby)										
Water Pollution	3. Smell None <span style="float:right">Strong</span> 1 2 3 4 5									
	4. Turbidity None <span style="float:right">High</span> 1 2 3 4 5									

Route: A / B / C
**Table 2 - Abandonment in Tai Kong Po**

	Tally <i>/// ///</i>	Total
1. Abandoned Farmland		
2. Abandoned Pigsties/ Chicken Sheds		
3. Abandoned Houses		
4. Others		

### C. Data Processing, Presentation and Analysis

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. Refer to the collected data, describe the types and distribution of the farming activities in Tai Kong Po.

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2. *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.

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3. Name the type of urban expansion in Tai Kong Po. Discuss its impacts on Tai Kong Po.

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## E. Evaluation

1. Other than the data collected in this course, suggest other data and information you might need to further investigate the urban expansion impacts on Tai Kong Po. Explain your answer.

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