Industrial Locations

Version 1.1

A. Planning and Preparation

Module

Changing Industrial Location

Enquiry Question

Enquiry Question 1 :	***What are the locational advantages for local industries to set up factories in Tung Tau Industrial Area?***
Enquiry Question 2 :	***What are the locational advantages for local industries to set up factories in Yuen Long INNOPARK.***
Hypothesis 3 :	***The amount of dust particulates in Tung Tau Industrial Area is higher than that in Yuen Long INNOPARK.***
Hypothesis 4 :	***The noise level in Tung Tau Industrial Area is higher than that in Yuen Long INNOPARK.***

Key Concepts

Manufacturing industry	Light industry	Heavy industry	Labour-intensive industry	Capital-intensive industry
High-tech industry	Market-oriented industry	Front shop, back factory	Industrial Inertia	Agglomeration economies

Scope of the Study

1. Tung Tau Industrial Area   (Site 1)
2. Yuen Long INNOPARK   (Site 2)

Field Work Plan

1. Refer to base maps, Map 6.1, 6.2 and 6.3.

2. According to the maps, take a walk according to the assigned route.

3. Observe the characteristics of the industrial areas and record the types, information and characteristics of industries in Table 6.1, 6.4 and 6.5.

4. In site 1 and 2, measure the amount of dust particulates and the noise level at each check point of the routes, record the data in Table 6.2 and Table 6.3.

Think About

List the safety risks when conducting fieldwork in industrial areas.

B. Data Collection

Complete the following table.

Primary Data Items	To Examine Hypothesis/ Enquiry Question				Data Collection Method			Equipment Required (Number on the Equipment Checklist)
	1	2	3	4	Observation	Counting	Measuring	
1. Types of Industries								
2. Characteristics of Industries								
3. Dust Particulates								
4. Noise Level								

Equipment Checklist

Items	Quantity	Checked	Returned
1. Base map (individual)	x 3	❏	❏
2. Clipboard (individual)	x 1	❏	❏
3. Compass (individual)	x 1	❏	❏
4. Dust particulates meter	x 1	❏	❏
5. Sound meter	x 1	❏	❏

Think About

Name the sampling methods adopted in fieldwork, and list their advantages.

Think About

List the possible errors when collecting data.

Data Recording sheet

Table 6.1: Types of industries in Tung Tau Industrial Area

Name of Industrial Building:			
1.		11.	
2.		12.	
3.		13.	
4.		14.	
5.		15.	
6.		16.	
7.		17.	
8.		18.	
9.		19.	
10.		20.	

Table 6.2: Relevant Data in Tung Tau Industrial Area

Site	1	2	3	4	5
Dust Particulates (µg/m³)					
Noise Level(dB)					

Table 6.3: Relevant Data in Yuen Long INNOPARK

Site	1	2	3	4	5
Dust Particulates (µg/m³)					
Noise Level(dB)					

Table 6.4: Comparison of Environmental Characteristics in Industrial Areas

		Tung Tau Industrial Area					Yuen Long INNOPARK				
1.	Water Pollution	Slight 1	2	3	4	Serious 5	Slight 1	2	3	4	Serious 5
2.	Land Pollution	Slight 1	2	3	4	Serious 5	Slight 1	2	3	4	Serious 5
3.	Number of Chimney	Less 1	2	3	4	More 5	Less 1	2	3	4	More 5
4.	Smoke Emission	Less 1	2	3	4	More 5	Less 1	2	3	4	More 5
5.	Unpleasant Odor	Slight 1	2	3	4	Serious 5	Slight 1	2	3	4	Serious 5
6.	Illegal Parking	Slight 1	2	3	4	Serious 5	Slight 1	2	3	4	Serious 5
7.	Busy Traffic	Slight 1	2	3	4	Serious 5	Slight 1	2	3	4	Serious 5

Table 6.5: Comparison of Characteristics in Industrial Areas

		Tung Tau Industrial Area		Yuen Long INNOPARK	
1.	Distance from CBD	Nearer / Farther		Nearer / Farther	
2.	Distance from Town Centre	Nearer / Farther		Nearer / Farther	
3.	Regional Planning	Better / Worse		Better / Worse	
4.	Transport Facilities	Better / Worse		Better / Worse	
5.	Road Design	Better / Worse		Better / Worse	
6.	Site Area	Bigger / Smaller		Bigger / Smaller	
7.	Industrial Building Area	Bigger / Smaller		Bigger / Smaller	
8.	Industrial Building Height	Higher / Lower		Higher / Lower	
9.	Industrial Scale	Bigger / Smaller		Bigger / Smaller	
10.	Capital Requirement	More / Less		More / Less	
11.	Source of Capital	Local / Non Local		Local / Non Local	
12.	Technology Requirement	Higher / Lower		Higher / Lower	
13.	Others				

C. Data Processing, Presentation and Analysis

Draw the most appropriate diagrams with graph papers, to show the data of Hypothesis 3 and 4.

Hypothesis 3: _____

Hypothesis 4: _____

Think About

List the merits and demerits of the chosen diagrams.

D. Interpretation and Conclusion

1. Use the collected information to respond Enquiry Question 1 : ***"What are the locational advantages for local industries to set up factories in Tung Tau Industrial Area?"***

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2. Use the collected information to respond Enquiry Question 2 : "***What are the locational advantages for local industries to set up factories in Yuen Long INNOPARK?"***

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   _____

   _____

   _____

3. Does the fieldwork result support the Hypothesis 3: "***The amount of dust particulates in Tung Tau Industrial Area is higher than that in Yuen Long INNOPARK."*** Support your conclusion with the collected data. (Extended question: What is/are the source(s) of dust particulates in the field site?)

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4. Does the fieldwork result support the Hypothesis 4: "***The noise level in Tung Tau Industrial Area is higher than that in Yuen Long INNOPARK."*** Support your conclusion with the collected data. (Extended question: What is/are the source(s) of noise in the field site?)

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E. Evaluation

1. Base on this fieldwork, suggest how to increase the reliability and validity of the data collection.

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2. Suggest a fieldwork in Hong Kong with a theme of industrial study, state clearly the hypothesis and data collection arrangement of the fieldwork. .

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Further Reading for National Geography

Industrial development in the Greater Bay Area

Economic overview of China
(Chinese version only)