

# Industrial Locations (Tai Po)

Version 1.0

## Objectives

1. Identify and compare the characteristics of Tai Po Industrial Estate (brownfield site) and Hong Kong Science Park (greenfield site).
2. Identify different types of industries and their locational advantages.

## Equipment List

Items	Quantity	Checked	Returned
1. Base map (Individual)	x3	<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. Dust particulates meter	x1	<input type="checkbox"/>	<input type="checkbox"/>
5. Sound meter	x1	<input type="checkbox"/>	<input type="checkbox"/>
6. Thermometer	x1	<input type="checkbox"/>	<input type="checkbox"/>
7. Counter	x1	<input type="checkbox"/>	<input type="checkbox"/>

## Field Work Plan

1. According to the map, take a walk according to the assigned route in the studying area.
2. Record the wind speed, wind direction, noise level and air quality at each checkpoint along the route, and mark down in Table 1.1 and Table 1.2.
3. Count the major type of vehicles and the number of vehicles passing by from all directions for 1 minute, and record in Table 1.1 and Table 1.2.
4. Observe the characteristics of the surroundings along the route, and compare the features of Tai Po Industrial Estate and Hong Kong Science Park with Table 1.3.
5. Along the assigned route, mark down the company names on the map in the studying area.
6. Follow the instructions, visit the assigned buildings in Hong Kong Science Park and mark down the company names in Table 1.4.
7. Follow the instruction, study the design features of green buildings in Hong Kong Science Park Phase 3.

## Data Recording sheet

Table 1.1 Information record sheet of Tai Po Industrial Estate

Checkpoint	Dust Particulates ( $\mu\text{g}/\text{m}^3$ )	Noise Level (dB)	Wind Speed (m/s) and Wind Direction		No. of Vehicles	Major Types of Vehicles
1						
2						
3						

Table 1.2 Information record sheet of Hong Kong Science Park

Checkpoint	Dust Particulates ( $\mu\text{g}/\text{m}^3$ )	Noise Level (dB)	Wind Speed (m/s) and Wind Direction		No. of Vehicles	Major Types of Vehicles
1						
2						
3						

Table 1.3 Record Form of the Studying Areas

	Tai Po Industrial Estate	Hong Kong Science Park	Remarks/ Examples
<b>1. LAND USE AND CHARACTERISTICS OF BUILDINGS</b>			
a. Plot ratio: (The ratio between the gross floor area of a building and the area of the site on which it is erected.)	Higher/ Lower	Higher/ Lower	
b. Design of buildings	Modern/ Traditional	Modern/ Traditional	
c. Building materials	Describe:	Describe:	
d. Maintenance of buildings	Good/ Poor	Good/ Poor	
e. Presence of warehouses	Yes/ No/ No need	Yes/ No/ No need	
f. Areas for further expansion	Yes/ No	Yes/ No	
g. Adjacent Land Use	Describe:	Describe:	
<b>2. BASIC FACILITIES</b>			
a. Parking facilities	Abundant/ Enough/ Inadequate	Abundant/ Enough/ Inadequate	
b. Utility supply (Design for specific industry e.g. gas, electricity, laboratory)	Describe:	Describe:	
c. Industrial waste treatment facilities (e.g. sewage treatment works)	Yes/ No	Yes/ No	
d. Fire Station	In close proximity/ Far away	In close proximity/ Far away	
e. Banking services	Yes/ No	Yes/ No	
f. Restaurants	Yes/ No	Yes/ No	

	Tai Po Industrial Estate	Hong Kong Science Park	Remarks/ Examples
<b>3. ROAD AND TRANSPORT FACILITIES</b>			
a. Paving and Road • No damage or broken of road surface, in good condition = 10 • Around 25% damaged, road surface in need of repair = 5 • Around 50% or more damaged, road surface in need of repair = 0	Score	Score	
b. Parking Index : 1 motorcycle = 0.5 car 1 private car = 1 car 1 goods vehicle = 2 cars 1 container vehicle = 3 cars	No. of cars/ 100m	No. of cars/ 100m	
c. Road safety facilities	Abundant/ Enough/ Inadequate	Abundant/ Enough/ Inadequate	
d. Types of public transport and their connected regions	Describe:	Describe:	
<b>4. LANDSCAPE AND VEGETATION</b>			
a. Greening proportion	Higher/ Lower	Higher/ Lower	
b. Presence of Parks	Yes/ No	Yes/ No	
c. Presence of landscape decoration/ artwork	Yes/ No	Yes/ No	
d. Street Furniture Include street lighting, litter bins, street lights and road signs  • All items in good condition = 10 • Around 25% damaged, some items in need of maintenance = 5 • Around 50% or more damaged, in need of maintenance = 0	Score	Score	
e. Scenery	Describe:	Describe:	

Table 1.4 Types of Companies in Hong Kong Science Park

Name of the Building: _____			
1.		2.	
3.		4.	

**Study the Green features in Hong Kong Science Park**

(Reference: <http://greenbuilding.hkgbc.org.hk/projects/view/81>)

- Follow the instructor that shows you some green building design features in Hong Kong Science Park
- Phase 3. You can also discover how technological innovations have emerged into modern architectural design and shape our way towards a greener future.

## Data Processing

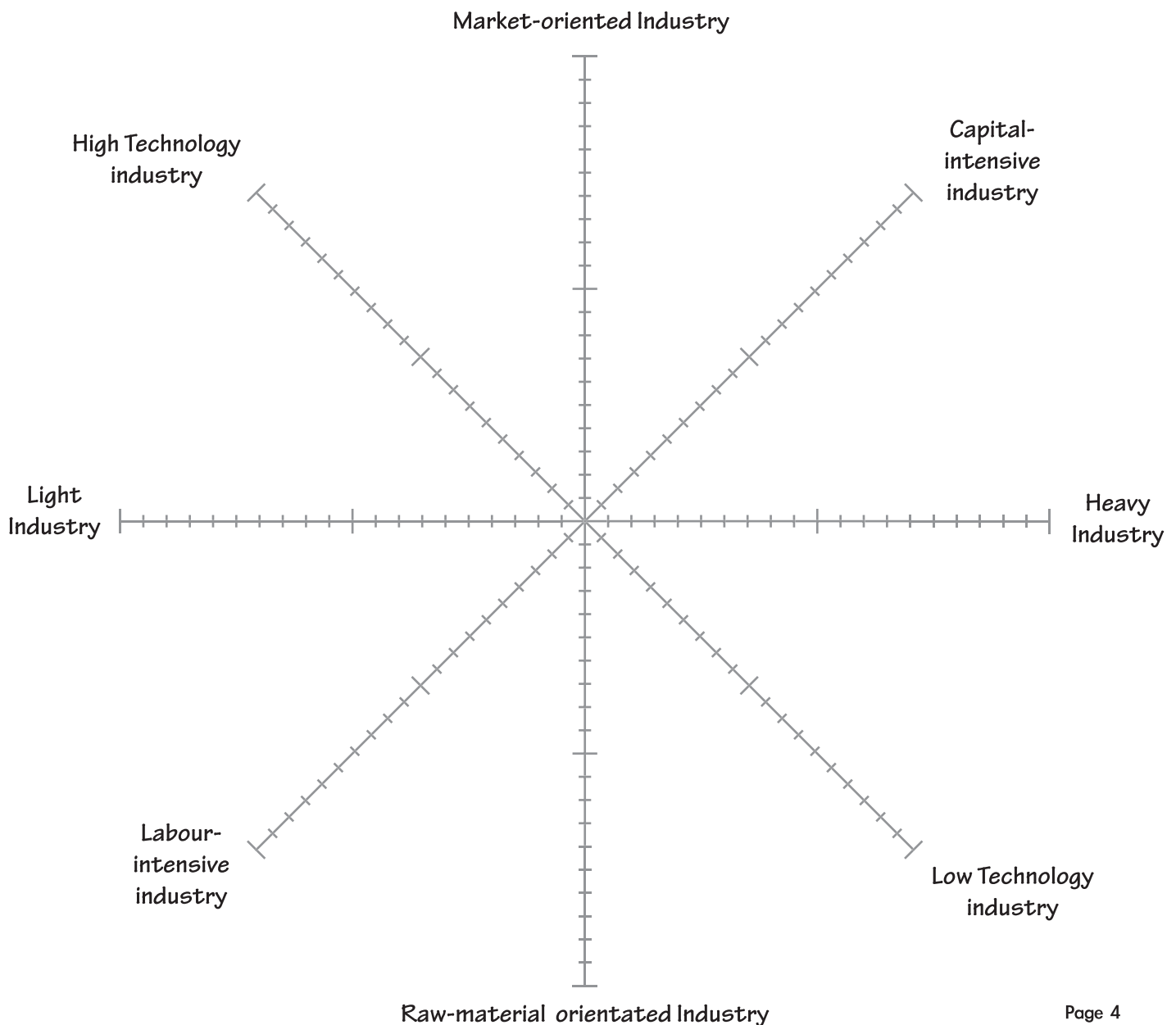
1. With the data collected in Tai Po Industrial Estate, categorize them into the industrial types in Table 1.5.

Table 1.5 Industrial types in Tai Po Industrial Estate : Route ( )

Types of industries	Market-oriented	Raw material oriented	Light industry	Heavy industry	Capital-intensive	Labour-intensive	High technology	Low technology
No. of industries in your study area Total: _____								
No. of industries in your class Total: _____								

2. According to the result in Table 1.5, plot the following polygon.

Topic: \_\_\_\_\_



## Discussion Questions

1. List FOUR locational advantages of Tai Po Industrial Estate.

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2. List out different types of industries found in Tai Po Industrial Estate. Give examples.

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3. Refer to the above question, some of the industries in Tai PoPo Industrial Estate are transnational corporations, whu they choose to set up in Hong Kong?

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4. List FOUR locational advantages of Hong Kong Science Park to develop industry there.

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5. What types of industries are located in Hong Kong Science Park ? Give examples.

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6. Compare and analyse the environmental quality of Tai Po Industrial Estate and Hong Kong Science Park.

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7. What are the favourable factors of developing high technology industry in Hong Kong?

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**Extended Enquiry Question**

1. Refer to the reference, how the example is a re-industrialization project? List an example of revitalization in industrial area.

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2. List the locational factors of the example, and the advantages brought its development.

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