

Hong Kong Wetland Park School Education Programme Park Experience I : Exploring the Mangroves

(From April to October)



1. Target

S.1 to S.6 (participant number: 15-50)

2. Objectives

Knowledge

- Characteristics of mangrove habitat and its adaptation
- Common mangrove species in Hong Kong
- Mangrove ecosystem
- Survival challenge of mangroves
- Importance of mangroves

Skills

- Observe the living environment of mangroves
- List out the characteristics of mangroves which can help them to adapt to the environment
- Use the mangrove guide to identify mangrove species and record the organisms in the mangrove habitat
- Point out the ecological values of mangroves
- Extract and identify tannin in mangrove

Attitudes

- Recognize the ecological value of mangroves
- Follow the rules when visiting mangrove sites and respect the mangrove wildlife
- Commit to change personal habits in order to help in protection of mangroves and their wildlife

3. Rundown

Itinerary
Classroom Activity: Exploring the Mangroves
Mangrove Boardwalk*
Laboratory activity: Extracting Tannin
Group discussion and conclusion

* In case of inclement weather conditions, the outdoor fieldwork will be changed to indoor activities.

(Updated on 2020.08)

4. Activity Content

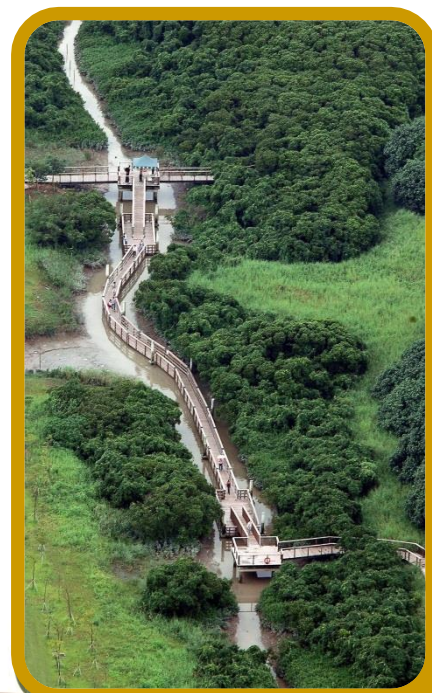
Content	Focal Points
<p>Classroom Activity</p> <p>Duration : 20minutes</p> <ul style="list-style-type: none"> • Mini lecture • Introduction of the basic knowledge of mangroves 	<ul style="list-style-type: none"> • What are mangroves? • Distribution of mangroves in Hong Kong • True mangroves and associate mangroves in Hong Kong • Difficulty faced by mangroves • Effect of tidal height and weather on mangrove observation activities
<p>Exploring the mangroves</p> <p>Duration : 50minutes</p> <ul style="list-style-type: none"> • Carry out an observation activity • Acknowledge the adaptive features of different mangroves • Record animals species in mangrove habitat 	<ul style="list-style-type: none"> • Identify common mangrove species • Special features of different mangrove species • Biodiversity of mangrove habitat
<p>Laboratory activity</p> <p>Duration : 30minutes</p> <ul style="list-style-type: none"> • Extract and identify tannin 	<ul style="list-style-type: none"> • Extract Tannin from Mangrove • Identify the extract • What is tannin?
<p>Group discussion and conclusion</p> <p>Duration : 20minutes</p> <ul style="list-style-type: none"> • Sharing and report • Conclusion 	<ul style="list-style-type: none"> • Adaptation of mangroves • Function of mangroves • Discuss the importance of wetland conservation



Mudskipper



Bruguiera gymnorhiza



Mangrove Boardwalk

(Updated on 2020.08)

5. Relevant Curriculum

Level		Science	
Secondary 1 - 3	Unit 3- Looking at living things 3.1 Living things 3.3 Biodiversity		
Level		Biology	Combined Science (Biology)
Secondary 4 - 6	III. Organisms and environment f. Ecosystems VI. Applied ecology a. Human impact on the environment b. Pollution control c. Conservation d. Global issues	III. Organisms and environment f. Ecosystems	
		Liberal Studies	Geography
		Area of study: Science, technology and the environment Module 6: Energy technology and the environment Theme 2: The environment and sustainable development	<ul style="list-style-type: none"> Managing river and coastal environments Building a sustainable city Disappearing green canopy

(Updated on 2020.08)

