

Hong Kong Wetland Park School Education Programme

Park Experience I : Aquatic Plant Watch (Secondary)



1. Target

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

2. Objectives



- Learn four groups of aquatic plants
- Understand the process of habitat succession
- Study the adaptive features of aquatic plants
- Understand the importance of aquatic plants to nature and humans



- List out basic features of four groups of aquatic plants
- Identify common aquatic plants around the park
- Use microscope to observe the structure of aquatic plants



- Enhance interest in nature exploration
- Appreciate the special structure of aquatic plants
- Understand the significant role of aquatic plants to the environment

3. Rundown

Itinerary
Classroom Activity: Learn about aquatic plants
Stream Walk*
Life Zone*
Wetlands at Work*
Succession Walk*

* 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
Lecture and Experiment Duration : 50 minutes <ul style="list-style-type: none"> • Introduction • Specimen observation • Exploratory study 	<ul style="list-style-type: none"> • Four groups of aquatic plants • Challenges for aquatic plants to grow and their corresponding adaptive features • Closely observe the structure of aquatic plants by using scientific apparatus • Study and record the adaptive features of aquatic plants
Field Study Duration : 50 minutes Stream Walk Life Zone Wetlands at Work Succession Walk <ul style="list-style-type: none"> • Observe aquatic plants around the park • Interpretation • Record findings on worksheet 	<ul style="list-style-type: none"> • Different types of wetland habitats • Common aquatic plants living in stream, pond, paddy field and freshwater wetland • Observe and identify four groups of aquatic plants • The role of aquatic plants in nature • The value of aquatic plants to humans
Group Discussion and Conclusion Duration : 20 minutes <ul style="list-style-type: none"> • Sharing and presentation • Group discussion and conclusion 	<ul style="list-style-type: none"> • Discuss the content of worksheets • The function of aquatic plants • Revision of the importance of aquatic plants, the threats they are facing and encourage students to conserve our wetland and treasure plants



Field study



Exploratory study

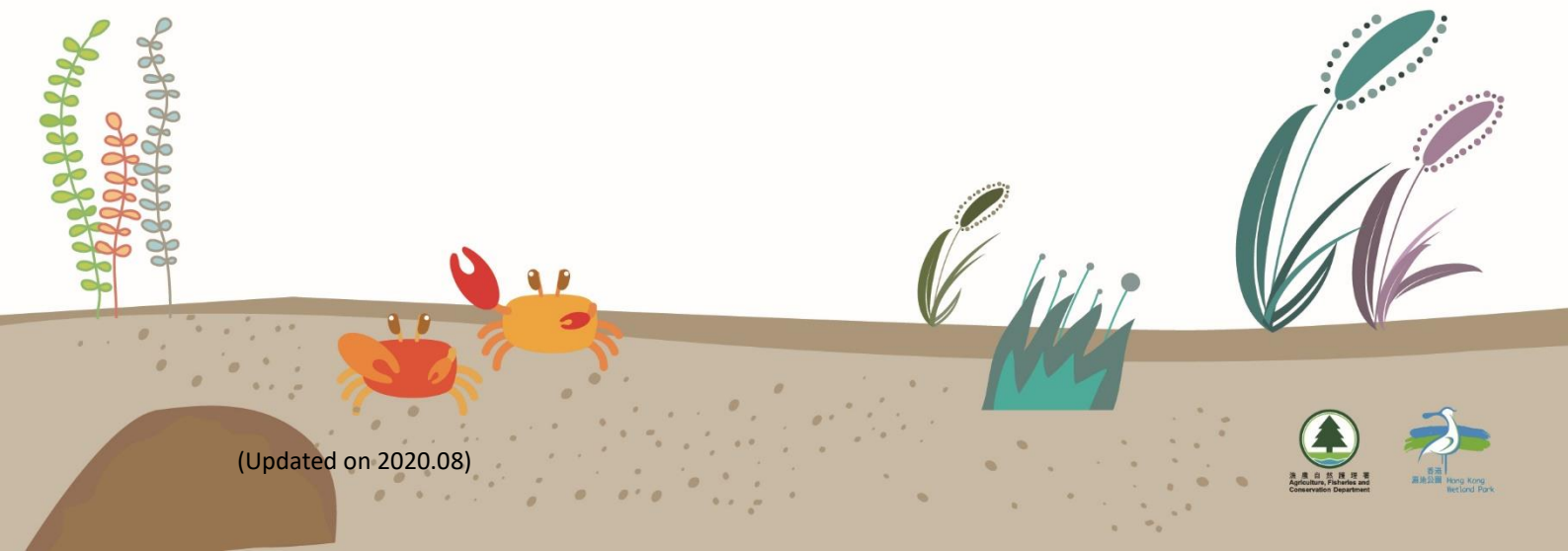


Interesting aquatic plant

(Updated on 2020.08)

5. Relevant Curriculum

Level	Science	Geography	
Secondary 1 - 3	Unit 2 : Water 2.5 Water conservation and pollution Unit 3: Looking at Living Things 3.1 Living Things 3.2 Grouping of Living Things 3.3 Biodiversity Unit 7 : Living things and air 7.4 Gas exchange in plants and animals	Section A : From Hong Kong to the world - variations in space, people and places <ul style="list-style-type: none"> Using urban space wisely 	
Level	Biology	Combined Science (Biology)	Geography
Secondary 4 - 6	II. Genetics and evolution c. Biodiversity and evolution III. Organisms and environment a. Essential life processes in plants f. Ecosystems VI. Applied ecology c. Conservation	II. Genetics and evolution c. Biodiversity and evolution III. Organisms and environment a. Essential life processes in plants f. Ecosystems	<ul style="list-style-type: none"> Managing river and coastal environments



(Updated on 2020.08)