

Hong Kong Wetland Park School Education Programme Park Experience I : Little Pond Detective (From April to October)



1. Target

Primary 4 – 6 students (participant number: 15-30)

2. Objectives



- Definition of wetland and different types of wetland habitats
- Biodiversity and ecology of ponds
- Sources and impacts of water pollution
- Methods of conducting water quality test
- Water cycle and different forms of water



- Search for and observe pond organisms
- Collect water samples
- Use scientific instruments to conduct water quality test and record results
- Investigate the effects of water quality on organisms
- Scientific exploration procedures



- Appreciate the biodiversity of ponds
- Recognize the value of water resources
- Wise use of the water resources and keep it clean

3. Rundown

Itinerary
Indoor Activity: Trace the Water Droplets
Life Zone *
Indoor Activity: Water Quality Test

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

4. Activity Contents

Contents	Focal Points
Interpretation Duration: 20 minutes <ul style="list-style-type: none"> Introduction Indoor Activity: 'Trace the Water Droplets' 	<ul style="list-style-type: none"> Definition and characteristics of wetlands Types of wetlands in Hong Kong Water cycle and the three forms of water Source of water pollution Relationship between wetland organisms and water
Fieldwork Duration: 50 minutes <ul style="list-style-type: none"> Field work Record field data and collect water samples 	<u>Life Zone</u> <ul style="list-style-type: none"> Observe and identify plants and animals in wetland reserve Understand the environment and ecology of wetlands Techniques of water sampling
Laboratory Work Duration: 40 minutes <ul style="list-style-type: none"> Water quality tests Investigate the effect of water quality on organisms 	<ul style="list-style-type: none"> Construct hypothesis according to the observations of habitats Learn basic water quality parameters and test methods Use scientific instruments to conduct water quality tests
Conclusion Duration: 10 minutes <ul style="list-style-type: none"> Discussion 	<ul style="list-style-type: none"> Importance of conserving water resources Our responsibility to conserve the environment and cherish water resources



5. Relevant Curriculum[#]

Level	Units
Primary 4	<u>Living on the Earth</u> <ul style="list-style-type: none">• Features and changes of the surface of the Earth - distribution of oceans and continents
Primary 5	<u>Water</u> <ul style="list-style-type: none">• Uses of water• Investigating water• Water pollution and purification• Treasuring water resources <u>Energy Source</u> <ul style="list-style-type: none">• Preventing pollution, and making good use of resources <u>Continuation of Life</u> <ul style="list-style-type: none">• Biodiversity and classification of living things• The interdependence of living things and the environment
Primary 6	<u>Survival for the Fittest</u> <ul style="list-style-type: none">• Forms and functions of living things and their adaptation to the environment• The effects of human activities on the natural environment• Making good use of resources and practicing green living <u>Energy and Environment</u> <ul style="list-style-type: none">• Reversible changes (e.g. the three forms of water)

#Above information is with reference to EDB General Studies Curriculum Guide for Primary Schools (Primary 1-6) (2017)

