

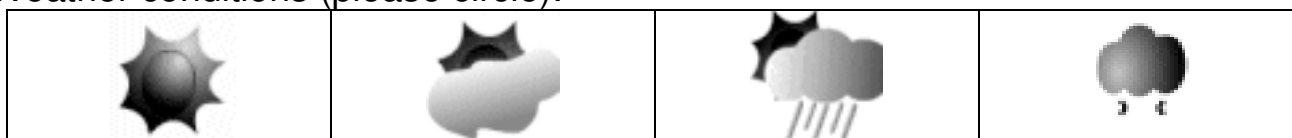
## Hoi Ha Wan Secondary School Visit Programme 'Who wants to be a Coastal Ecologist?'

Name: \_\_\_\_\_

Group No: \_\_\_\_\_

Date of trip: \_\_\_\_\_

Weather conditions (please circle):



(Icons from HK Observatory website)

Tidal level: \_\_\_\_\_ metres (m)

### Part A Sandy Shore (Life in wave-washed sand)

#### Let's guess..... (Writing a hypothesis / prediction)

- I. Which part of the shore will you expect to have the highest number of marine life found?
- II. Why?

#### Let's go and prove your prediction.....

- III. Record down what species can be found **on the sand surface** and **beneath the sand** of the sampling area and their numbers

Species	Number of individuals recorded in :					
	Upper shore		Middle shore		Lower shore	
	On the sand	Beneath the sand	On the sand	Beneath the sand	On the sand	Beneath the sand
Clams						
Snails						
Crabs						
Hermit crabs						
Fishes						
Shrimps						
Worms						
Others						

Note: -please pick up 10 clams in each sampling area for follow-up activities  
-please put all animals and sand back into their original position when you have finished

#### Let's think about.....

- Name one of the natural resource that is come from the coastal area?

## Part B Rocky Shore (Life on rocky shores)

### Background

Rocky shore is an extreme habitat for living organisms. Organisms must be able to tolerate extreme changes in salinity, moisture, temperature, wave action to survive. What features and strategy they have to adapt to this environment?

### Let's go and prove your prediction.....

- Search, identify and record at least THREE types/species of organisms that could be found on and among the rocks that line along the coast. Please draw it on the middle row. (1 organism on each cell)

No.	Name of organism	Drawing	Where to find
1			<ul style="list-style-type: none"> <li>Top/Middle/Lower part of a rock</li> <li>Shaded area/ Exposed area</li> <li>Found in rock pool/crevices?</li> </ul>
2			<ul style="list-style-type: none"> <li>Top/Middle/Lower part of a rock</li> <li>Shaded area/ Exposed area</li> <li>Found in rock pool/crevices?</li> </ul>
3			<ul style="list-style-type: none"> <li>Top/Middle/Lower part of a rock</li> <li>Shaded area/ Exposed area</li> <li>Found in rock pool/crevices?</li> </ul>
4			<ul style="list-style-type: none"> <li>Top/Middle/Lower part of a rock</li> <li>Shaded area/ Exposed area</li> <li>Found in rock pool/crevices?</li> </ul>
5			<ul style="list-style-type: none"> <li>Top/Middle/Lower part of a rock</li> <li>Shaded area/ Exposed area</li> <li>Found in rock pool/crevices?</li> </ul>

Note: -beware of the shells. They can get you hurt  
-please put all animals and rocks back into their original position when you have finished.

### Let's think about.....

- What kind of common morphological feature / behavior of organism found which can adapt the adverse environment? Please give two examples. (For example, operculum of snail which helps prevents desiccation.)
- What kinds of threat are imposing on coastal environment? Please give two suggestions.

## Part C

## Ecology of Mangrove

### Let's Observe.....

I. Observe the mangroves in Hoi Ha Wan and draw their morphology on the spaces provided

Name of plant	Height (m) (average)	Seeding / fruit / flower	Root	Leaf	Others (Please specify)

Name of plant	Height (m) (average)	Seeding / fruit / flower	Root	Leaf	Others (Please specify)

**Let's think about.....**

- What can we do to protect the coastal environment? Please suggest an example.