



Summary of WWF Secondary School Education Programmes and Curriculum Framework

Information Sheet		S1	S2	S3	S4
Programme		<i>Freshwater and Wetland Secondary School Education Programme</i>	<i>Footprint Secondary School Education Programme</i>	<i>Marine Secondary School Education Programme</i>	<i>Secondary School Outreach Programme</i>
Target	F.1 to 3 students	✓		✓	✓
	F.4 to 7 students	✓	✓	✓	✓
Key Tasks					
Moral and civic education		<ul style="list-style-type: none"> Contribution of individuals in the sustainable development of the Society and the environment 			
Reading to learn		<ul style="list-style-type: none"> Read factsheets, web searched materials and learn different issues about the field study areas 			<ul style="list-style-type: none"> Read information on exhibition panels to learn about the environmental impacts of consuming seafood commonly available in Hong Kong and South China and to change the behaviour of students towards sustainable consumption
Project learning		<ul style="list-style-type: none"> Can integrate with project learning related to environmental conservation, climate change, urban developmental impacts, water pollution, sustainable development, etc. 		<ul style="list-style-type: none"> Can integrate with project learning related to marine life and environment, marine conservation, urban developmental impacts, water pollution, climate change, sustainable development etc. 	<ul style="list-style-type: none"> Can integrate with project learning on issues such as Hong Kong's marine environment, marine life, sustainable development, conservation and sustainable consumption, etc.
Information Technology for Interactive Learning		<ul style="list-style-type: none"> Using online learning platform as to facilitate learning and share the field studies result on the Internet 		<ul style="list-style-type: none"> Using online learning platform as to facilitate learning and share the field studies result on the Internet 	
Learning Experience					
Community Service		<ul style="list-style-type: none"> Volunteer work in the conservation field 		<ul style="list-style-type: none"> Through understanding the marine environment in Hong Kong and its threats, students are motivated to take part in volunteer work in the conservation field and practice sustainable development living style 	<ul style="list-style-type: none"> Through understanding the environmental impacts from harvesting seafood, students are motivated to take part in volunteer work in the conservation field and practice sustainable use of natural resources
Physical & aesthetic development		<ul style="list-style-type: none"> Appreciate the beauty of the wetland of international importance 	<ul style="list-style-type: none"> Appreciate the beauty of the Mangrove and Site of Special Scientific Interests 	<ul style="list-style-type: none"> Appreciate the beauty of the Hoi Ha Wan Marine Park 	<ul style="list-style-type: none"> Appreciate the beauty of the marine environment and rich biodiversity
Career-related experiences		<ul style="list-style-type: none"> The work of environmental educators and conservationists 			
Key Learning Areas					
Chinese Language Education	<ul style="list-style-type: none"> Learn vocabularies including names of wildlife and other biological terms 	<ul style="list-style-type: none"> Read materials about urban development in Hong Kong 	<ul style="list-style-type: none"> Learn vocabularies including names of marine life 	<ul style="list-style-type: none"> Learn vocabularies including names of marine life. 	<ul style="list-style-type: none"> Read materials about exploitation of marine resources (e.g. fisheries) and marine conservation in Hong Kong
English Language Education	<ul style="list-style-type: none"> Read materials about wetland conservation and urbanization in Hong Kong 		<ul style="list-style-type: none"> Read materials about exploitation of marine resources (e.g. fisheries) and marine conservation in Hong Kong 	<ul style="list-style-type: none"> Read materials about exploitation of marine resources (e.g. fisheries) in local and global context 	
Personal, Social and Humanities Education	<ul style="list-style-type: none"> Pressure of the urban development and pollution on the wetland habitat Relationship between humans and nature Impacts of human activities on climate Importance of nature conservation Importance of sustainable development on wetland. 	<ul style="list-style-type: none"> Impact of marine water pollution to human and wildlife Land use design/planning and its effect on the environment 	<ul style="list-style-type: none"> The lime kiln industry in early days of Hong Kong The impact of urban development on the marine habitat The impact of fishery in marine biodiversity and sustainable development 	<ul style="list-style-type: none"> Relationship between human consumption of natural resources and the environment The impact of fishery in local and global marine environment, marine biodiversity and sustainable development 	
Science Education	<ul style="list-style-type: none"> Characteristics and adaptation features of wildlife Wetland ecosystem Understand climate change, weather change, seasonal change and their impacts 	<ul style="list-style-type: none"> Relationship between new town development and water pollution in Hong Kong 	<ul style="list-style-type: none"> The physical factors of the sea Characteristics and adaptation features of marine life Climate change impacts on marine ecosystem 	<ul style="list-style-type: none"> Understanding the environmental impacts when catching seafood Human activities on marine environment and marine life destruction 	
Technology Education	<ul style="list-style-type: none"> Capture the image of wetland environment and wildlife by using digital camera Using instruments to measure the physical parameters of wetland Using microscopes to observe the planktons in 	<ul style="list-style-type: none"> Impact of sewage treatment and discharge scheme on local marine water pollution 	<ul style="list-style-type: none"> Using instrument to measure the physical parameters of the sea Using microscopes to observe the planktons in the sea 	<ul style="list-style-type: none"> Understanding the impacts on marine environment and resources brought by the development of the fishing technology 	

	wetlands			
Arts Education	<ul style="list-style-type: none"> Use drawing to record the observed wildlife 	<ul style="list-style-type: none"> Use drawing to record the appearance of channelised river 	<ul style="list-style-type: none"> Use drawing to record the appearance of marine life observed 	<ul style="list-style-type: none"> Use illustration to bring out the environmental impacts when harvesting seafood and the sustainable use of natural resources
Physical Education	<ul style="list-style-type: none"> Activities outside classroom provide an opportunity for physical exercises 			
Liberal Studies (New Senior Secondary Curriculum)	<ul style="list-style-type: none"> Realize the state of sustainable development in Hong Kong and the areas nearby through field studies at wetlands Understand global conservation status of wetlands Investigate how the cultural and social differences between Shenzhen and Hong Kong results in various environmental and conservation problems Investigate how human activities including urban development and pond fish culture industry affect wetland environment Understand the environmental problems caused by China's reform and opening-up Learn wetland ecology through funny scientific experiments and field studies Realize our social responsibilities, as global citizens Investigate the interdependence of wetland lives and their environment Understand the interconnectedness of personal, local, national and global issues (e.g. climate change), and the interdependence of the physical environment and society Raise students' awareness and concern for local, national and global communities Raise social awareness and develop students' sense of global and national identity 	<ul style="list-style-type: none"> Understand the physical and human characteristics of the environment of Hong Kong Investigate the impacts of new town development on environment Understand the concept of sustainable development Explore the differences between old districts and new town, including social and cultural differences Understand the development of mariculture and industries in Hong Kong nowadays Realize our social responsibilities 	<ul style="list-style-type: none"> Understand the general situation of marine conservation in Hong Kong nowadays Realize how the lifestyle and consumption style of modern people (especially Hong Kong people) affect our precious marine resources Learn coastal and marine ecology through funny scientific experiments and field studies Investigate the interdependence of marine lives and their environment Understand a comprehensive marine conservation strategy is the key to sustainable development Realize our social responsibilities 	<ul style="list-style-type: none"> Learn about the marine environment in HK, alert students to their threats, hence realize how the lifestyle and consumption pattern of human (especially Hong Kong people) affect our precious marine resources both locally and globally Realize the importance of sustainable development Investigate how the threats from over-exploitation of natural resources result in different forms of ecological problems Realize our social responsibilities
Generic Skills				
Communication	<ul style="list-style-type: none"> Direct communication with education officers through questioning, answering and sharing viewpoints Present students' view through discussion and in written worksheets 		<ul style="list-style-type: none"> Observations and worksheets to motivate students to get involved in discussion and viewpoint sharing 	<ul style="list-style-type: none"> Worksheets to motivate students to get involved in discussion and viewpoint sharing
Critical Thinking	<ul style="list-style-type: none"> Examine the impact of urban and economic development on nature reserve / marine water quality and make reasonable and objective judgment Through issue-enquiry approach activities, cultivate students' independent thinking ability and adopt multiple perspectives in making judgements Examine the impacts of human activities on climate change and to reflect on the importance of sustainable development 		<ul style="list-style-type: none"> Examine the destructive impacts of human activities on marine environment of Hong Kong 	<ul style="list-style-type: none"> Examine the destructive impacts of human activities on marine habitats of Hong Kong and to think of the importance of sustainable development
Creativity	<ul style="list-style-type: none"> Propose and think of solutions to tackle threats towards wetland habitats 	<ul style="list-style-type: none"> Propose and think of alternative solutions to tackle water pollution problems in the marine water 	<ul style="list-style-type: none"> Propose and think of solutions to tackle threats towards marine habitats 	
Collaboration	<ul style="list-style-type: none"> Work in a team to record data during field study observation In the discussion activities, students can be receptive and respond to others' ideas and lead to good working relationships with others 		<ul style="list-style-type: none"> Work in a team to record data during field study observation Enhance students' collaboration through interactive games 	<ul style="list-style-type: none"> Through discussions of panel contents, students can be receptive and respond to others' ideas and lead to good working relationships with others
Problem Solving	<ul style="list-style-type: none"> Explore the various threats to Mai Po (e.g.: climate change) and think of possible ways to conserve Explore the threats of climate change on humans, environment, society and economy, and to suggest possible ways to alleviate the problem 	<ul style="list-style-type: none"> Explore the problems of sewage treatment and discharge scheme in Hong Kong 	<ul style="list-style-type: none"> Record the physical parameters of the sea and determine the relationship between those factors and the marine life Explore the various threats to marine environment of Hong Kong and think of possible ways to conserve 	<ul style="list-style-type: none"> Explore the various threats to marine environment of Hong Kong and think of possible ways to conserve
Self-management	<ul style="list-style-type: none"> Follow the visitor code when visiting the nature reserve 	<ul style="list-style-type: none"> Follow safety rules when participating in outdoor activities 	<ul style="list-style-type: none"> Follow the visitor code when visiting the marine park 	
Study Skills	<ul style="list-style-type: none"> Construct and develop own interpretation and reflections on all critical issues concerning environmental conservation Develop observation and analytical skill of the environmental issue Develop skills to read and interpret maps 		<ul style="list-style-type: none"> Develop logical thinking on the relationship between human activities and natural environment Through observations and worksheets to nourish students' integration and analytical skill 	<ul style="list-style-type: none"> Develop skills of reading and photo/graphic appreciation Develop logical thinking on the relationship between human activities and natural environment

			<ul style="list-style-type: none"> Through worksheets to nourish students' integration and analytical skill
Values and Attitudes			
Respect for others	<ul style="list-style-type: none"> Respect wildlife by not disturbing them and their habitats Respect classmates when doing the group works Respect the education officer by following the instruction and visitors' code 		<ul style="list-style-type: none"> Learn the need to respect to classmates during the panel exhibition and follow-up activities
Responsibility	<ul style="list-style-type: none"> Complete the assigned group works Take care of education tools borrowed from education officer Take care / not to damage venue facilities To be a responsible global citizen in helping to protect the wetland environment Respect nature and all living things, and make a commitment to protect society and the environment as a responsible citizen 	<ul style="list-style-type: none"> Complete the assigned group works Take care of education tools borrowed from education officer Take care / not to damage venue facilities To be a responsible citizen in helping to protect the marine environment and practice sustainable development living style 	<ul style="list-style-type: none"> To be a responsible citizen in helping to protect the marine environment and practise the sustainable consumption of natural resources
National identity	<ul style="list-style-type: none"> Understand the relationship of the land use change history in Mai Po and Shenzhen Observe the present rapid development in the Shenzhen / Futian area and learn the unity of both sides of the Deep Bay area in terms of ecosystem 	<ul style="list-style-type: none"> 	<ul style="list-style-type: none"> The influence of Pearl River in Hong Kong's hydrography