

A Trip to Pasir Ris Park

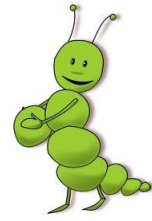


Pre-Learning Journey Worksheet

Annex 1a

Who lives here?

1. Spot the garden animals in your school.
2. Record the name and type of animal.
3. Decide if they are beneficial or harmful to garden plants and tick the correct box.



No.	Animal I Spotted	Type of animal (e.g. insect, mollusc, amphibian, reptile, bird, fish etc.)	Tick below:	
			Beneficial To Plants	Harmful To Plants
1.	e.g. Earthworm	worm	✓	
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				

LEGEND

- Track
- Park Connector
- Boardwalk
- Bridge
- Building
- Car Park
- Tollat
- Public Phone
- F&B
- BBQ-Pit
- Park Office
- Bicycle Klask
- Sea Sports Klask
- Bird Watching Tower
- Bird Watching Hut
- Campsite
- Fitness Corner
- Stable
- Event Venues



LEARN MORE ABOUT OUR PARKS WITH OUR GUIDED PROGRAMS

GUIDED WALKS

There is no better way to learn more about the park than to explore it with our informative and entertaining guides. Two very different and exciting walks are currently available.

OUR KITCHEN GARDEN TOUR

Date : Every 1st Saturday of the month
 Time : 9am to 10am
 Venue : Pasir Ris Park Carpark C
 Fees : \$4/pax

Ever wondered how vegetables make their way to your plate? Wonder no more as our guides will show you how vegetables are grown. You will also learn how some plants from the garden can be used as natural remedies, something our grandparents would probably have grown and used as well!

CREATURES UP CLOSE AND PERSONAL - MANGROVE GUIDED TOUR

Date : Every 3rd Saturday of the month
 Time : 9am to 10am
 Venue : Meet at Pasir Ris Park Carpark C
 Fees : \$4/pax

What exactly is a mudskipper? And who or what is a Fiddler crab or Sesamine crab? Does a dog-faced water snake look more dog-like than snake? Join the team and discover answers to these questions and much more. The lucky few might even witness some of the seashore animals at the river mouth!

FACILITIES AVAILABLE FOR BOOKING

Extend your enjoyment at the park with a simple BBQ or camp under the stars. Planning an event? Check out our various event locations for lasting memories. Book early to avoid disappointment.

CAMPING

Camping activities are only allowed in Area 1 and Area 3. A permit is required at all times. Apply for camping permits through any AXS station. Locations of camping sites are indicated on this brochure map.

BBQ PITS

Barbeque sessions are available through online bookings at www.nparks.gov.sg and AXS stations. Each BBQ permit allows use of BBQ pits on a particular day from 12.00pm till 8.00am the following morning. The AXS Station in Pasir Ris Park is located at D'Space in Area 3. Littering is an offence in Pasir Ris Park, carrying a minimum fine of SGD\$300. Inadvertent littering caused by strong wind is also considered littering.

EVENT VENUES

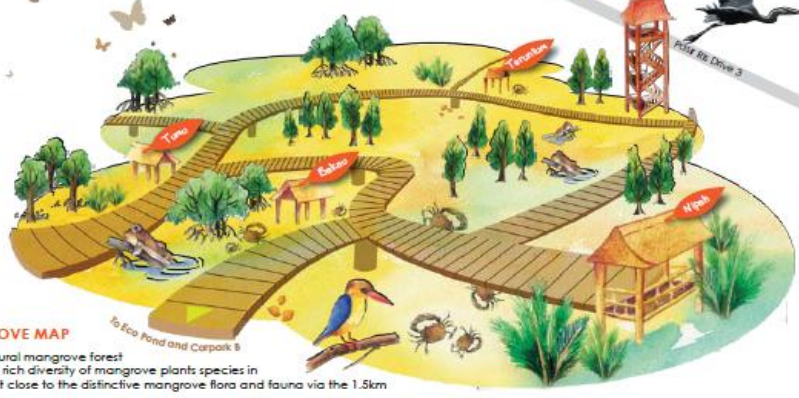
With modern facilities amid the lush greenery, Pasir Ris Park offers unique indoor and outdoor event spaces that can be used for a variety of events ranging from corporate functions to weddings. Sites available include:

- 1 Jalan Loyang Besar Lawn
- 2 Aloha Lawn
- 3 Costa Lawn
- 4 Piai Plaza
- 5 Tribal Council
- 6 Viewing Plaza
- 7 Native Lawn
- 8 Green Lawn
- 9 D'Space
- 10 D'Lawn
- 11 Elias Lawn

For online bookings, availability and charges of these venues, please visit our website at www.nparks.gov.sg for more information.

MANGROVE MAP

This area of natural mangrove forest plays host to a rich diversity of mangrove plants species in Singapore. Get close to the distinctive mangrove flora and fauna via the 1.5km boardwalk.



VISITOR GUIDELINES

- Do...**
- Obtain a permit before holding your BBQ session
 - Conduct your BBQ only within the BBQ pits provided
 - Obtain a permit before setting up your camping tents
 - Keep your dog on a leash and under proper control at all times
 - Clean up after your dog
 - Cycle and rollerblade on designated tracks only
- Don't...**
- Litter - Trash bins are easily located around the park
 - Feed, hurt, trap or kill any animal or destroy its habitat
 - Vandalize, damage or destroy any trees, plants, buildings, structures or ornaments
 - Ride or drive any motor vehicles (including motorized bicycles) into or around the park
 - Cause danger or nuisance to fellow park users

SCHOOL HOLIDAY PROGRAMME

Planning something special for your children during school holidays? We have just the right activity.

Happening every June and December, Fun Naturally! @ Pasir Ris Park is designed to offer interactive and educational activities for you and your kids. Check out details at <http://www.nparks.gov.sg/pasirrispark>.



PHOTO COURTESY OF NParks

The organisation that manages parks in Singapore is the


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Let us explore the features in Pasir Ris Park...



ND	Car Park	Info Kiosk	Weekday Campsite	Kitchen Garden	Jalan Loyang Besar	Tribal Council	D' Space
Connector	Toilet	Bicycle Kiosk	Fitness Corner	Maze Garden	Aloha Lawn	Viewing Plaza	D' Lawn


Based on the given map of Pasir Ris Park, make a list of some of features that you can see.



The 2 park features that my group will be visiting are
and

Let's research on...

Feature 1	Feature 2



Tucked away in the park is a mangrove swamp and kitchen garden, all within close proximity of one another. The Pasir Ris Mangrove Swamp houses a thriving habitat of unique plants and animals. Venture into the dense mangrove forest on the boardwalk and you will come across mud crabs, mud skippers, monitor lizards and sea snakes. Healthy scores of butterflies and dragonflies can be seen in various parts of the mangrove.

The mangrove acts as the lungs of the world along with other mangroves found elsewhere. It stabilises our climate and weather. It is a habitat for plants and animals and provides food for animals and people. Mangroves are also a source of medicines, traditional medicines, wood, charcoal and other raw materials for industries. It provides jobs for people and helps in coastal protection.

The ground material is water-logged and oxygen deprived mud. The gas emitted is hydrogen sulphide which results from the rotting of the lower layers of mud. The mangrove is washed by sea water and fresh water. They have glossy leaves to reduce evaporation. They have specialised fruits which start growing on the parent plant before dispersal and are buoyant and dispersed by water. Pasir Ris is divided into 3 parts by the rivers, Sungei Api Api and Sungei Tampines.

The Kitchen Garden allows one to view, smell and touch a wide array of vegetables, culinary herbs and spices commonly used in local cuisines. Traditional Chinese Medicine (TCM) herbs are also grown in a corner of the garden.

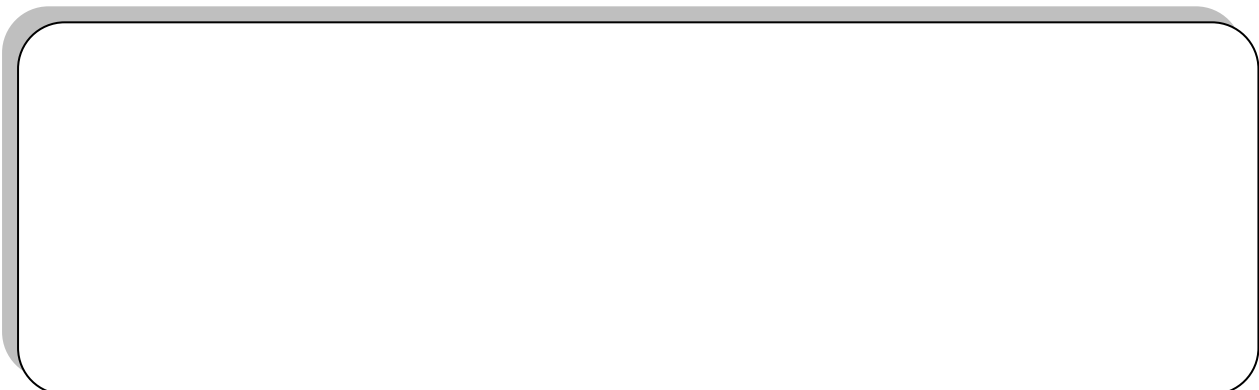
Kitchen Garden

Annex 3

Name at least five culinary herbs or spices that can be found in the Kitchen Garden.



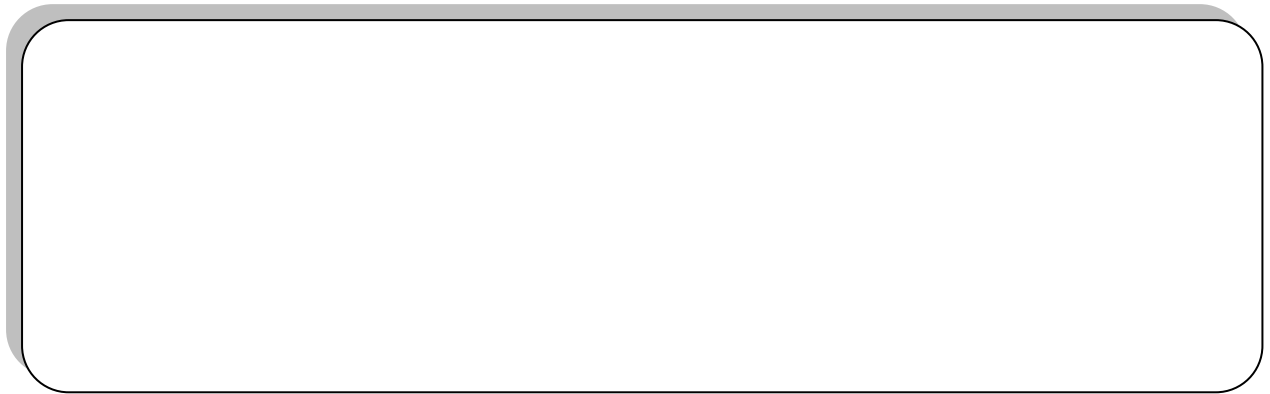
Identify two Traditional Chinese Medicine (TCM) herbs that you can find in the Kitchen Garden and list some of its uses.



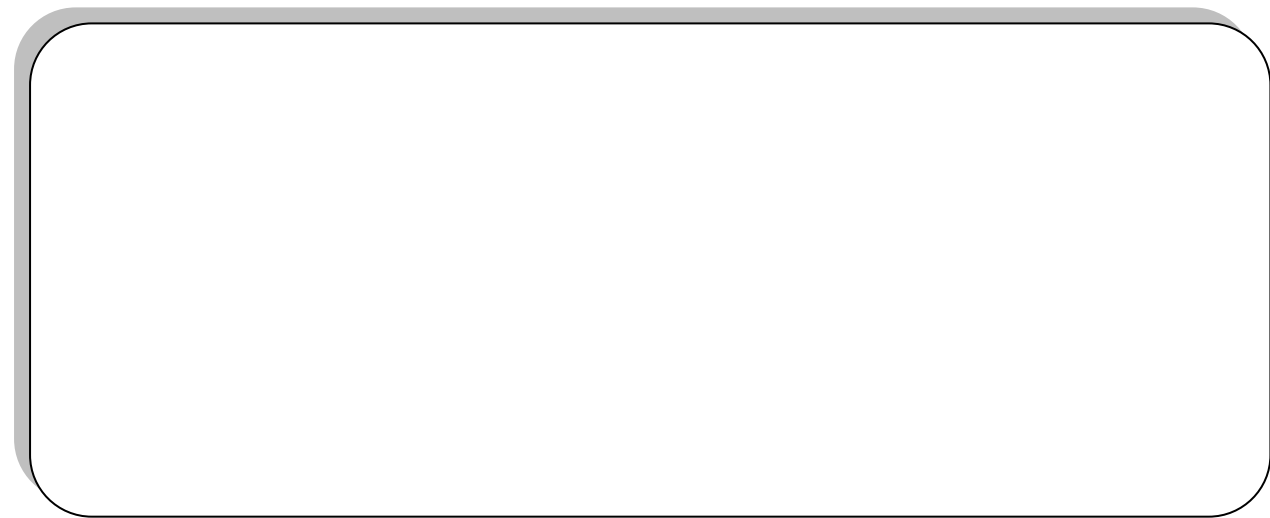
Describe and draw one particular plant that you like (e.g. smell, plant and leaf structure).



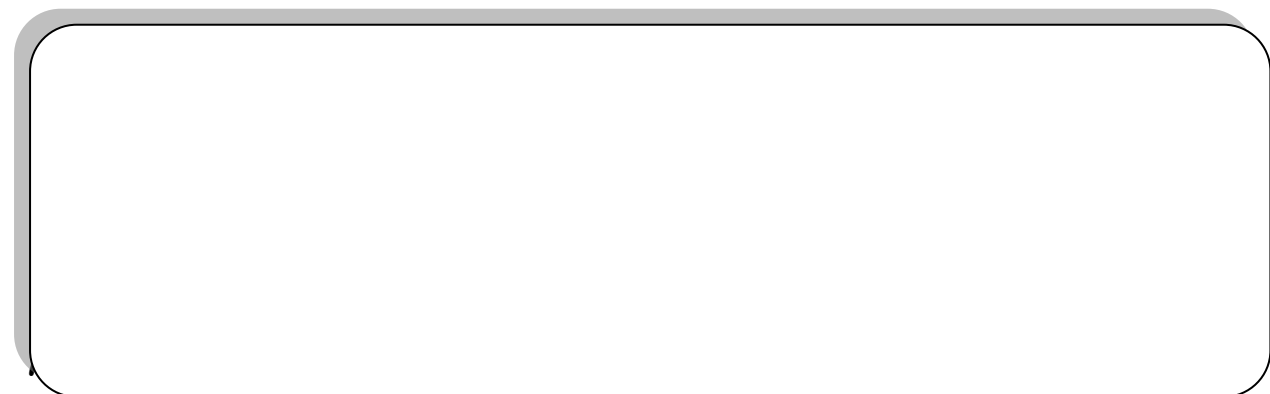
According to the guide, what are the conditions for the plants to grow well in the garden?



Draw a picture of the compost tumbler which can be found in the garden. What is it used for? What materials do you need to make the compost?



List four vegetable plants found in the Kitchen Garden.



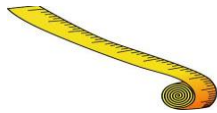
Mangrove Swamp

Annex 4

Name four interesting fauna species that are found in the Mangrove Boardwalk.

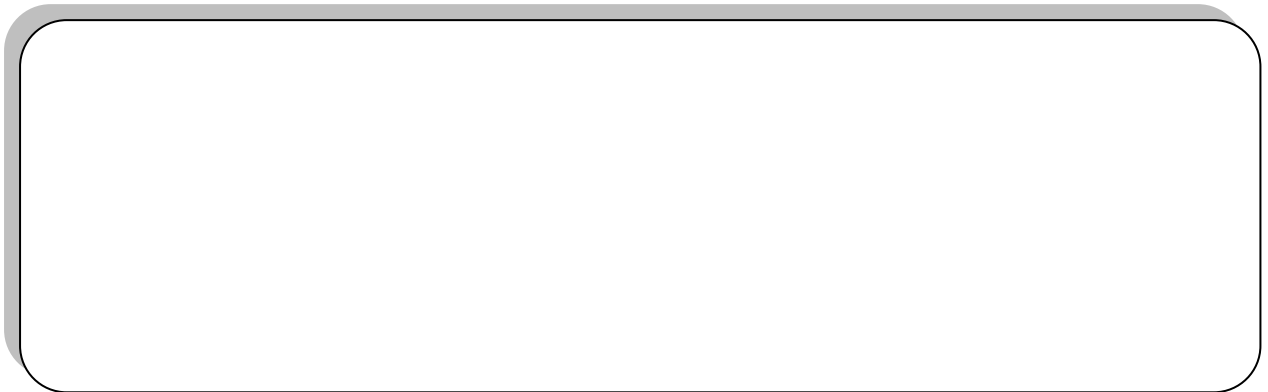
What is the distance of the Mangrove Boardwalk?

..... km



Describe and draw one particular plant that you like (e.g. smell, plant and root structure).

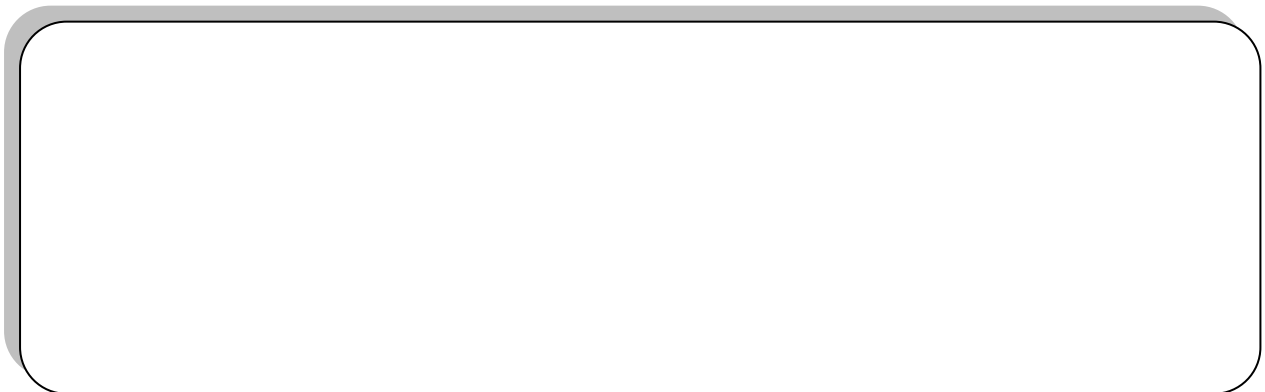
All organisms adapt to changes in their environment. State one adaptation of an organism that you have observed in the Mangrove Forest.



Draw a possible food web of the Mangrove Forest.



State at least one problem that you have noticed which may lead to the destruction of the Mangrove Forest.



Find 12 words related to the Mangrove in this word search.

K	F	S	K	G	S	N	E	A	E	I	E	R
T	O	B	R	C	R	O	C	O	D	I	L	E
O	C	O	U	E	E	S	L	T	R	T	S	H
E	E	R	G	T	T	I	T	S	A	I	G	S
S	E	R	I	H	T	S	S	F	G	L	A	I
H	E	E	A	R	O	E	Y	T	O	S	G	F
T	O	U	E	B	H	F	R	O	N	E	M	G
O	G	A	A	V	T	R	F	F	F	T	S	N
M	A	N	G	R	O	V	E	C	L	A	M	I
R	R	S	L	A	O	O	E	B	I	I	E	K
M	E	O	E	N	M	A	E	A	E	G	E	L
E	O	G	E	O	S	E	T	T	S	G	O	S
A	R	C	H	E	R	F	I	S	H	E	T	E

1. Name the following animals.

Mudskipper

Tree Climbing Crab

Spider

Monitor Lizard

Paradise Tree Snake

Smooth Otter



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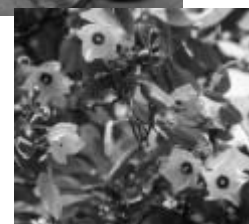
2. What is the colour of the Sea Hibiscus flower?



Blue

Yellow

Red



3. Fill in the blanks to find out what the creatures are saying?

- i) GATES CLIMB CRAWL EYES
LAND WATER MUDSKIPPER SKIN



I am a I live in both and My two rest on top of my head. I take in oxygen through my I can through the mud and evenup the roots of a tree.

- ii) LEAVES KINGFISHER WATER TREE
WATER MONITOR LIZARD SIX TREE CLIMBING CRAB



Hi, I am the I eat mainly During high tide, I climb up to avoid being eaten by fishes. I must stand outside the water or I will be eaten by birds such asand the Malayan I can climb trees of up to metres.

- iii) FISH BITE WATER TREES
MALAYAN WATER MONITOR LIZARD TAIL



Hello, I am the the I love to hunt for and am also an expert in climbing Do not try to catch me because I will try to or lash out with my powerful When startled, I will dive into the to escape.

4. Put the following in the correct boxes.

BIRDS	FISHES	PLANTS	MAMMALS

KINGFISHER

HALFBEAK

OTTER

WILDBOAR

CATTAIL

MULLET

BAT

MUDSKIPPER

HERON

FERN

SQUIRREL

ARCHERFISH

WOODPECKER

PIEGON

SIMPOH AIR

SEA HIBISCUS

5. Word Search

Find 10 words related to Pasir Ris Park.

PASIR

RIS

PARK

POND

BIRDS

NATURE

FISHES

PLANTS

ANIMALS

TREES

P	L	A	N	T	S	D	R	I	B	A
A	A	S	L	A	M	I	N	A	T	R
S	D	R	N	S	T	M	R	R	R	D
I	R	E	K	S	A	U	R	S	E	N
R	I	M	A	E	I	N	R	E	E	O
S	T	P	E	F	I	S	H	E	S	P

6. Match the following pictures to what they eat.

PREDATOR

PREY



•

•



Water Monitor Lizard

Fruits of Indian Cherry Tree



•

•



Lesser Dog Faced Bat

Tree Climbing Crab



•

•



Smooth Otter

Changeable Lizard



•

•



Creeper Shell

Algae



•

•



Paradise Tree Snake

Green Chromide

7. Match the following correctly by joining the dots.



Mud lobster
Mound

•

• I have yellow
flowers



Sea Hibiscus

•

• I have my own
swimming pool!



Mudskipper

•

• I am good at
catching fish



Kingfisher

•

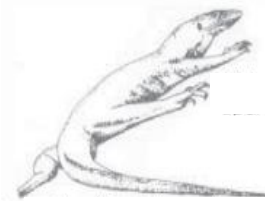
• I have a long
powerful tail to
help me swim



Prop Roots

•

• I am home to
the Mudlobster



Water Monitor
Lizard

•

• I help the tree
to stand strong



What is one feature that you like most in Pasir Ris Park? Why?

How do you think the features in Pasir Ris have benefited visitors to the park?

What other features would you like to see in the park?

As students, what is one thing you can do to help make the park a better place for park users?

Without NParks, what do you think Singapore will be like?

How do you feel about working in a group? What has your group done well? What can be improved?

Evaluation and Feedback Form

Annex 6

Name:

Class:

No.	Statement	Strongly Agree	Agree	Disagree	Strongly Disagree
1	I know more about NParks and its contributions towards the progress of Singapore into a City in a Garden.				
2	Despite the constraints and challenges that NParks faces, I am confident that it will continue to stay committed and find innovative ways to work around them.				
3	Pasir Ris Park is an ideal recreational and educational place for all Singaporeans to learn and enjoy about nature.				
4	I enjoyed the learning journey to Pasir Ris Park and will definitely tell my family and friends about Pasir Ris Park.				
5	I am proud to have a park like Pasir Ris in Singapore.				

Introduction:

You are a member of the school's Gardening Club. You have been tasked by the club's President to visit and write about Pasir Ris Park in the club's blog to promote Pasir Ris Park and to share the experiences of your visit.

Your Roles are:

1. To understand and appreciate the flora and fauna found in Pasir Ris Park.
2. To learn about the importance of Pasir Ris in Singapore's natural heritage.
3. To learn how Pasir Ris Park has evolved over the years.
4. To promote Pasir Ris Park as a learning and recreational park for all.

Your Task:

At the end of your visit to Pasir Ris Park, your team is to complete the blog.

Some useful questions to guide your team:

1. What is role and purpose of Pasir Ris Park in Singapore?
2. Who is the organisation behind the management of Pasir Ris Park today?
3. Why should we visit Pasir Ris Park?
4. What are the important features that can be found in Pasir Ris Park?
5. What changes have Pasir Ris Park gone through over the years?
6. What can be done for the future of Pasir Ris Park as a learning and recreational park?

Process:

Assigning specific roles for each member of the team

Example

1. Group Leader (Lead and co-ordinate)
2. Scribe (Recording information)
3. Photographer (Take photos)
4. Researcher (Searching for information on the history, flora and fauna, what to look out for at the parks etc.)
5. Map reader (if they are carrying out the task without a guide)

Websites:

1. http://www.NParks.gov.sg/cms/index.php?option=com_visitorsguide&task=parks&id=26&Itemid=73
2. http://www.NParks.gov.sg/cms/docs/parks/PRP_Brochure.pdf
3. <http://www.wildsingapore.com/places/prp.htm>
4. <http://mangrove.nus.edu.sg/guidebooks/text/1017.htm>

Project Rubrics

Annex 8

Group Members:

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CATEGORY	4	3	2	1
Organisation	The blog is very well organized. One idea or scene follows another in a logical sequence with clear transitions.	The blog is pretty well organized. One idea or scene may seem out of place. Clear transitions are used.	The blog is a little hard to follow. The transitions are sometimes not clear.	Ideas and scenes seem to be randomly arranged.
Focus on Assigned Topic	The entire blog is related to the assigned topic and allows the reader to understand much more about the topic.	Most of the blog is related to the assigned topic. The story wanders off at one point, but the reader can still learn something about the topic.	Some of the blog is related to the assigned topic, but a reader does not learn much about the topic.	No attempt has been made to relate the blog to the assigned topic.
Accuracy of Facts	All facts presented in the blog are accurate.	Almost all facts presented in the blog are accurate.	Most facts presented in the blog are accurate (at least 70%).	There are several factual errors in the blog.
Spelling and Punctuation	There are no spelling or punctuation errors in the final draft. Character and place names that the author invented are spelled consistently throughout.	There is one spelling or punctuation error in the final draft.	There are 2-3 spelling and punctuation errors in the final draft.	The final draft has more than 3 spelling and punctuation errors.
Photographs	Original photographs are detailed, attractive, and creative and relate to the text on the page.	Original photographs are somewhat detailed, attractive, and relate to the text on the page.	Original photographs relate to the text on the page.	Photographs are not present OR they are not original.

Copyright Acknowledgement:

- Photograph of Pasir Ris Park on Cover Page is taken from <http://www.NParks.gov.sg/cms/popup/pasir-education.html>
- Maps in Annex 1b and 1c are taken from the National Parks Board website.
- Word Search in Annex 4 is created from www.armoredpenguin.com/wordsearch/
- Cliparts and graphics in Annex 1a, 1c, 4 and 5 are taken from <http://office.microsoft.com/en-us/images/>
- Rubrics in Annex 8 is created from Adapted from rubistar.4teachers.org
- All other information, resources, pictures and photographs are adapted from the National Parks Board and NParks Flora and Fauna websites.

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