



INTEGRATED ECOLOGY WORKSHEETS (MANGROVE)

Q1: Distinctive Features about Mangroves:

a. What gas is caused by the rotting of the lower layers of mud?

b. What type of water washes the mangroves away? (salt water e.g)

c. Give 3 examples on how mangrove plants adapt to live in mud.

d. Why are the leaves glossy?

Q2.



<- How can this create a huge impact on the mangrove society? (weeds)

Q3.



<- How do this create a huge impact on the mangrove society? (people)

For the following questions, fill in the blanks with the words provided in the boxes.

Q4.

Low-lying, white sands, sandy beach, north east, pulau ubin, balmy coconut, mangrove swamps



“white sands”:

Pasir ris used to be a _____ and undeveloped area with “pasir ris”, which means “ _____ ” in malay, is the name that was used to describe the long stretch of _____ along the _____ - _____ coastline of Singapore that faces _____

_____. The beach used to be dotted with _____ trees and _____.

Q5.

Kampongs, Elias Road, sungei tampines, iron-wood tree, timber trade



Kampongs:

Pasir Ris used to be a low-lying and undeveloped area with _____ and villages for example Kampong Pasir Ris, Kampong Bahry and the Chinese villages at _____. The name " _____ " is a reminder of "Tampinis" which is the old Malay name for Riau _____; and the _____ that flourished in the early days but has since been exhausted.

Q6.

Rural, National Archives, beach resort, Pasir Ris area



Early recreational spot:

Despite its _____ character, the _____, according to records obtained from the _____, was a popular _____ with a hotel and a good beach that was ideal for swimming and picnics. Even in the 1950s, water skiing was already a popular spot there.

Q7.

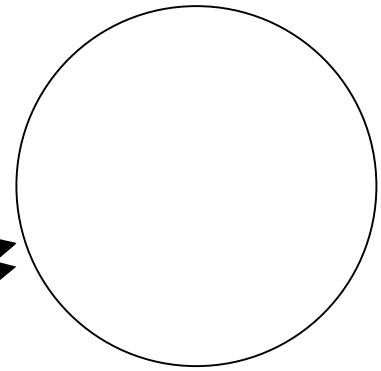
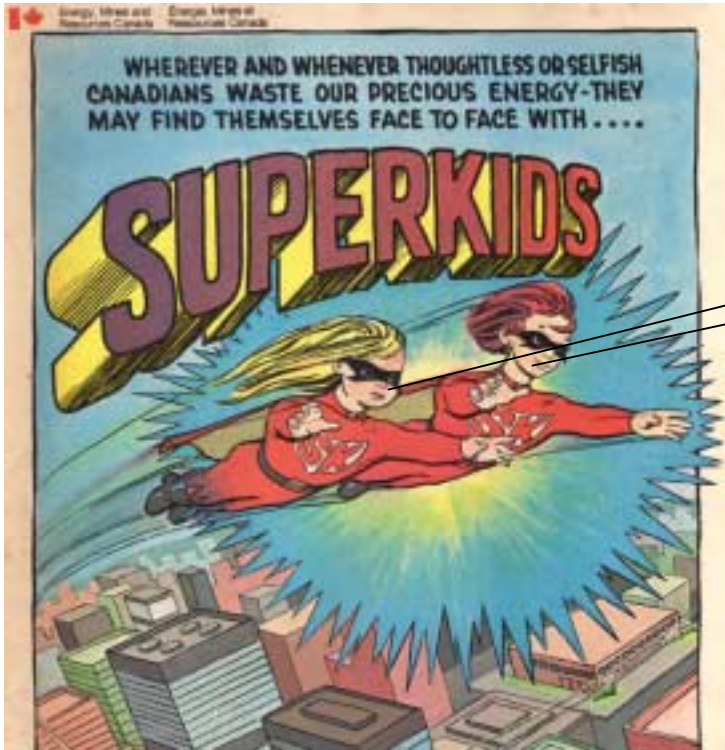
Rivers, Sungei Api Api, Sungei Tampines, hectare, mature mangrove forest, reclamation, mangrove organisms



Reclamation & mangrove preservation:

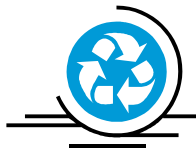
Pasir Ris Park is dissected into three parts by the _____ and _____. Work on this 70.52 _____ park began in 1988 on land reclaimed between 1978 to 1979. A 5-hectare patch of _____ was preserved during _____ and development, of which boardwalks and educational sign boards were put up to describe the biology of _____.

Q8.



State what the superkids will say in order to maintain conservation in the circle on top.

Q9.



Do you think conserving the mangroves is important? Why?

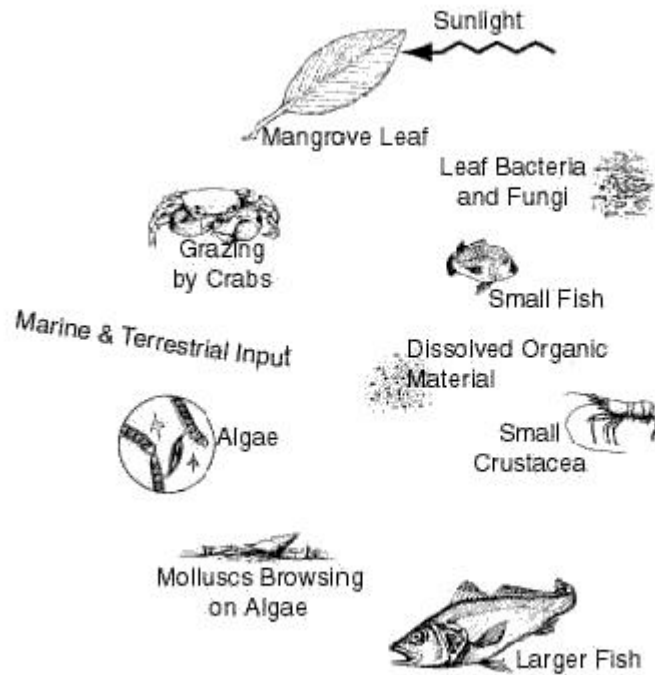
Q10. How will you help by conserving the mangroves?

Q11. What are mud lobsters?

Q12. What are cicadas?

Q13. Why are the mangroves shrinking?

Q14. Form a food web of the animals in the mangrove



Bonus Questions

Q12. Do you think the Geographical location of the mangroves is important? Why?

Q13 :

Fire ants, spider, Dog face snake, cicada, horse shoe crab, giant mud skipper, crocodile, archer fish, kingfisher, white-breasted water hen.

Invertebrates

Insects	Other insects

Vertebrates

Fishes	Reptiles	birds

END OF WORKSHEET - HAVE FUN! =)