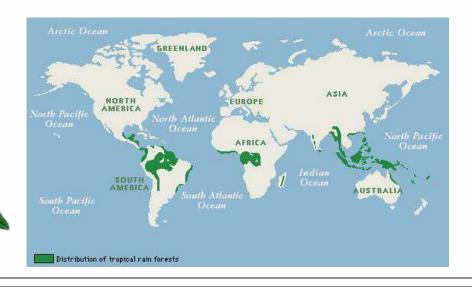
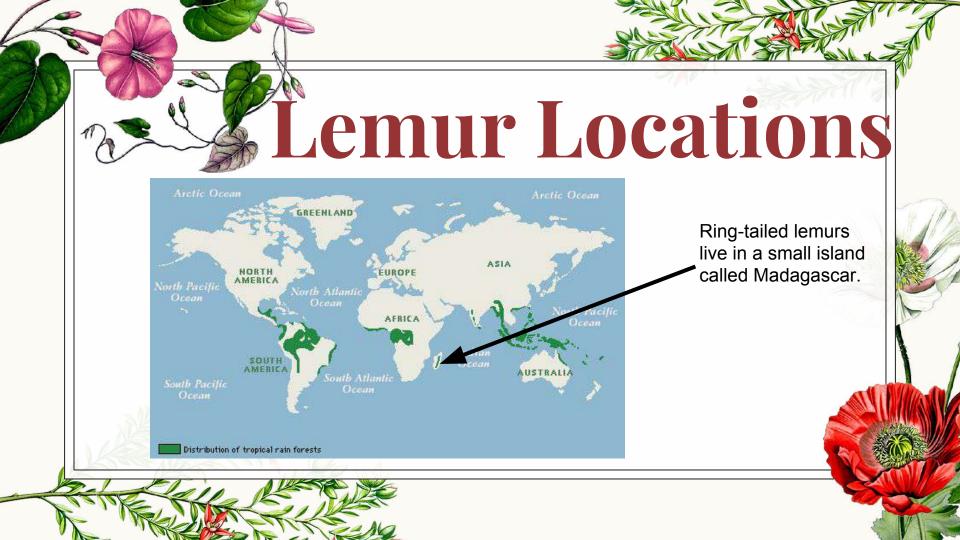


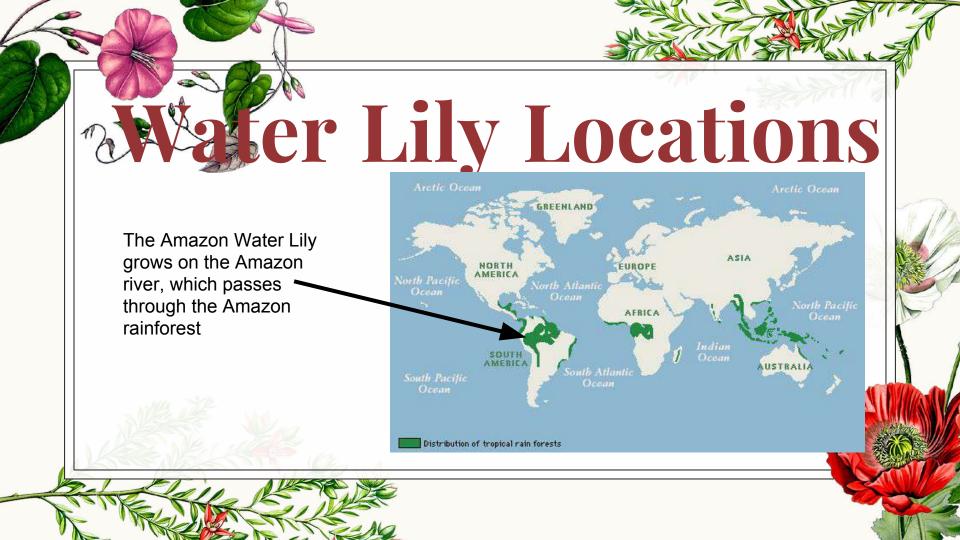


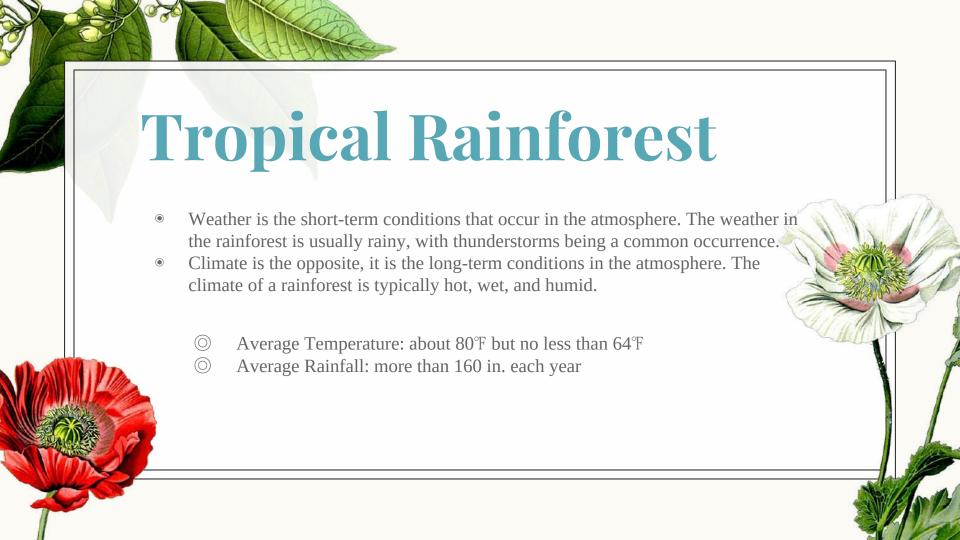
# Biome

Major Biome: Forest
Sub-Biome: Tropical Rainforest

















Kingdom: Animalia

Phylum: Chordata

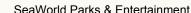
Class: Mammalia

**Order:** Primates

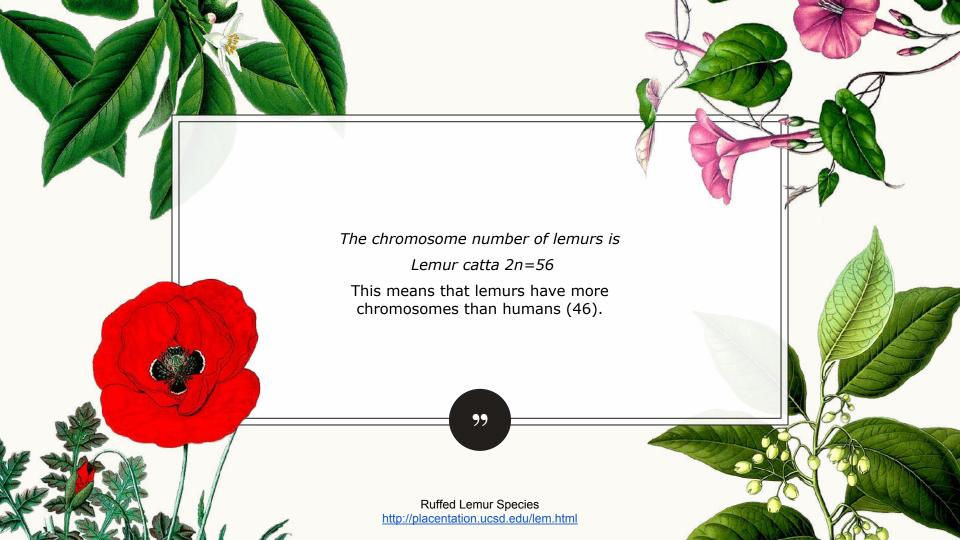
Family: Lemuridae

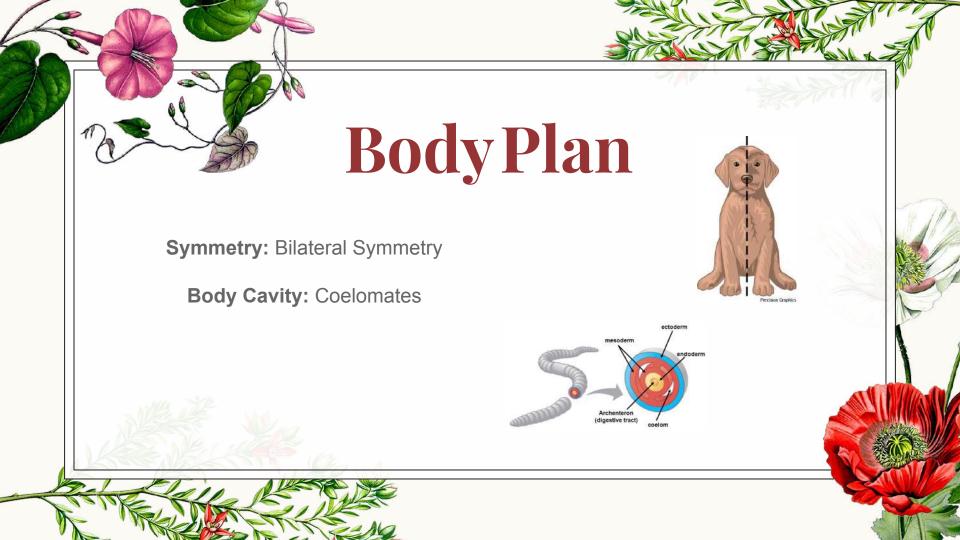
**Genus:** Lemur

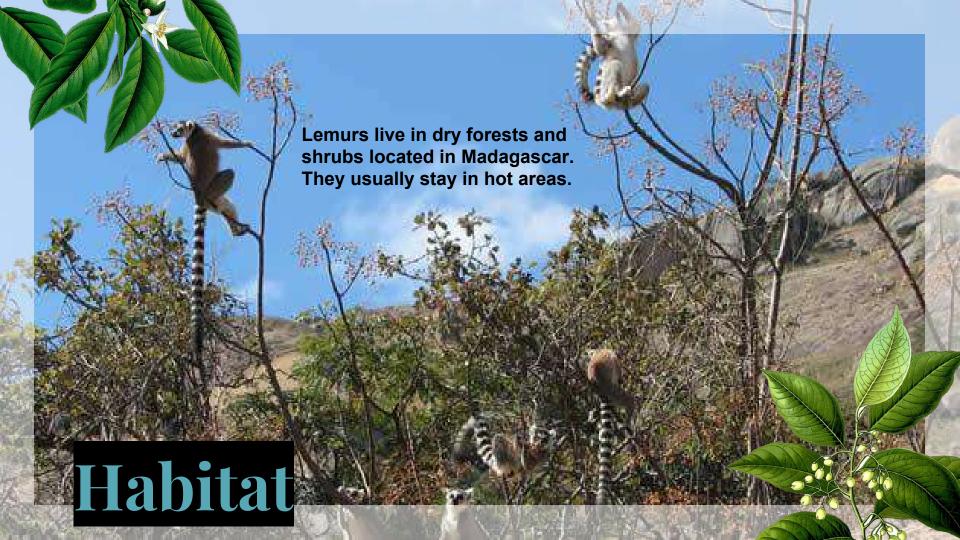
**Species:** *L. catta* 













# Food

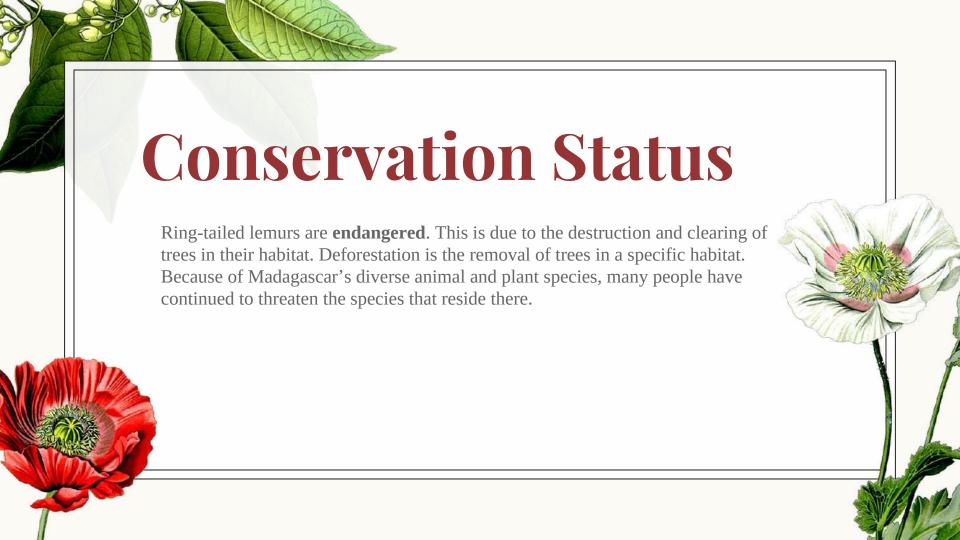


- Ring-tailed lemurs are omnivores
- They eat fruits and nuts and may sometimes eat insects
- They find their food in trees and bushes (during colder months they travel longer distances to find food).

















Though humans arrived much later to Madagascar, trees have been cut down and cleared to allow for growing crops and using the wood to make furniture.

#### Hunting

Based on discovered fossils, lemurs have been found with slashes which indicate that previously they were being hunted for food.

#### **Invasive Species**

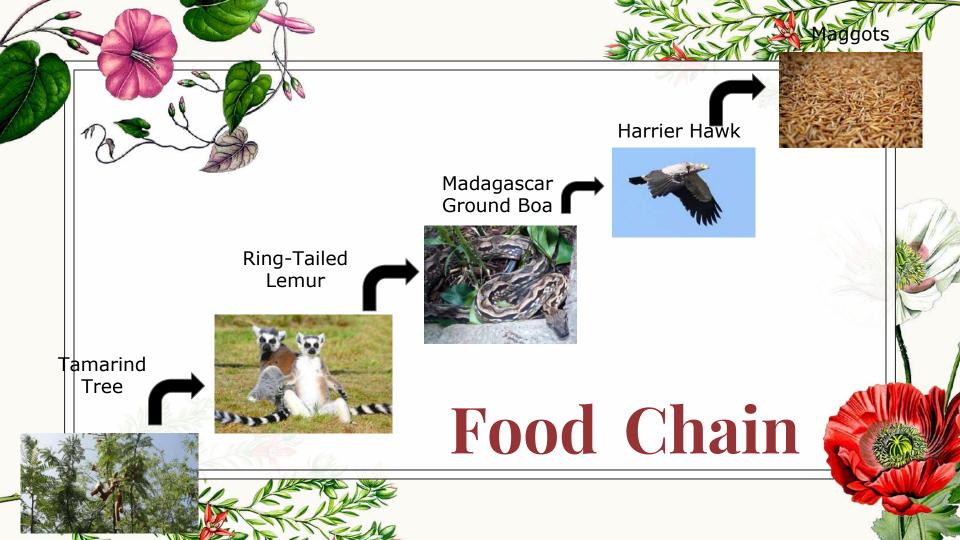
When humans migrated here, they brought along domestic dogs who were trained to guard crops and chase away rodents. They roamed the island and have preyed on ring-tailed lemurs.



 Lemurs are nocturnal and have poor eyesight, but its long nose provides them with a strong sense of smell which overcomes that and is very useful for them at night.

 Lemurs also have long nails to help them get food from trees and cling to their mother's back when they are an infant.

Besides the "stink fight", lemurs use the secretions from their scent glands to mark their their territory as well as communicate with other lemurs.



### **Dichotomous Key**



1	a. Has red/brown fur go to 3 b. Has gray fur go to 2
2	<ul><li>a. Is small in size <i>Microcebus murinus</i></li><li>b. Is large in size go to 5</li></ul>
3	a. Has a solid black tail go to 4     b. Has a very small tail <i>Microcebus berthae</i>
4	a. Has yellow eyes <i>Varecia rubra</i> b. Has brown eyes <i>Eulemur rubriventer</i>
5	<ul> <li>a. Has alternating black and white rings on its tail Lemur catta</li> <li>b. Has a greyish/brown tail Eulemur mongo</li> </ul>

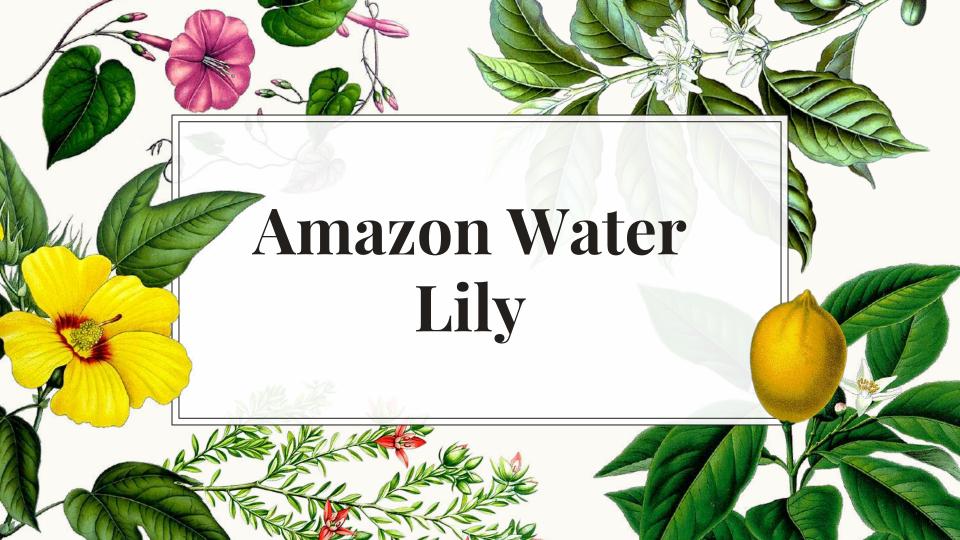
### **Evolution**

#### **Evolution:**

There is a theory that Madagascar broke away from Africa before the evolution of apes. It isn't fully confirmed yet, but it is possible that lemurs, monkeys, and apes have a common ancestor. Because they haven't had to compete for food, lemurs have evolved in a very isolated location which is why there are more than 50 species of lemurs now. Fossils that have been believed to be from lemurs show that they used to weigh up to 350 pounds. Researchers have come to the conclusion that they have become smaller in size because of the fact that they could live up in trees. Their tails are not used to hang in trees (like monkeys) instead, they have other functions.



Notey http://www.notey.com/blogs/lemur





# Taxonomy of Amazon Water Lilies

Kingdom: Plantae

Phylum: Magnoliophyta

Class: Magnoliopsida

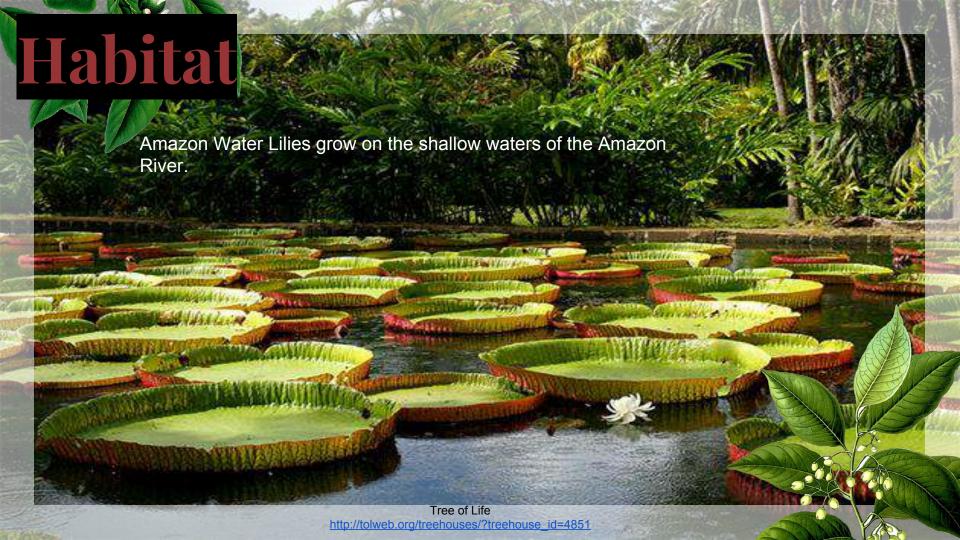
**Order:** Nymphaeales

Family: Nymphaeaceae

Genus: Victoria

Species: Victoria Amazonica







# Appearance

The flower part of this plant is white. The flower creates large leaves that grow flat and have rims at the ends. The bottom of the leaves allows the lily to be strong and hold up to "136 kg". However, the flower does not last very long; only 2 days at the most.



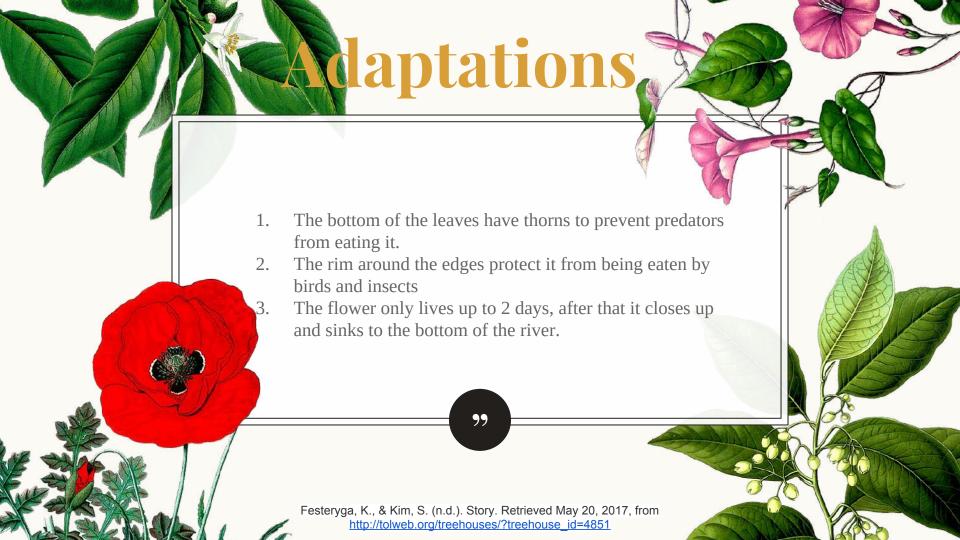




Victoria Amazonica has 20 chromosomes (2n) which is less than a human's 46.

Tropism: Hydrotropism (Positive)





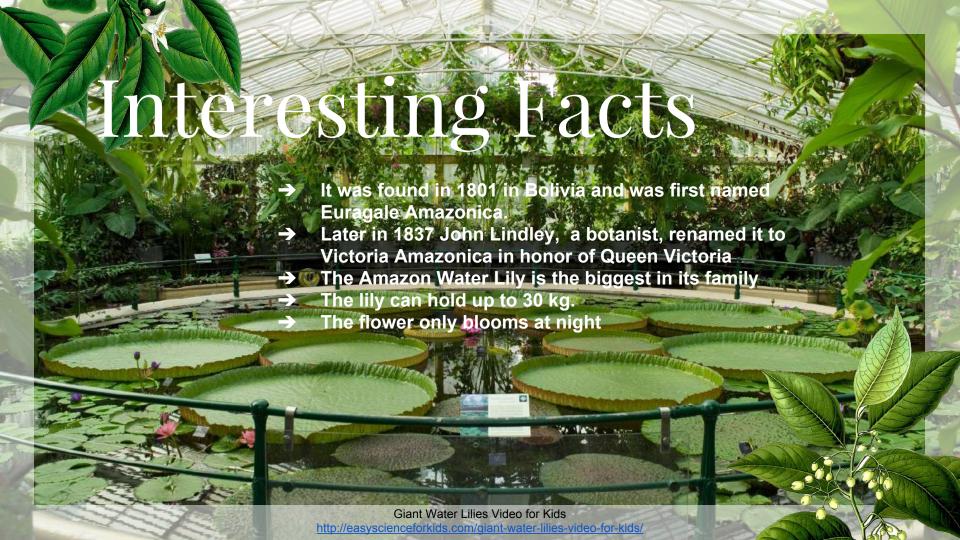
# **Humans Interfering**

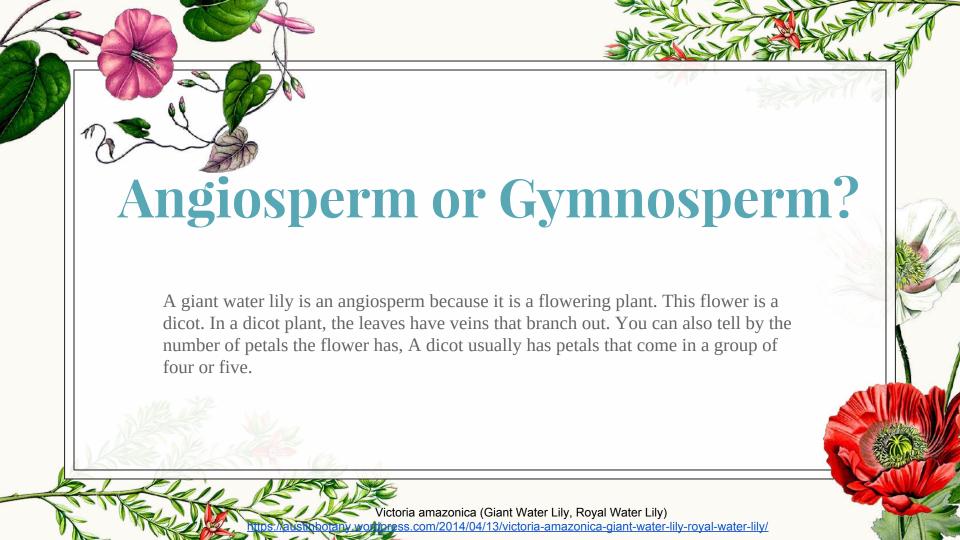
#### **Pollution:**

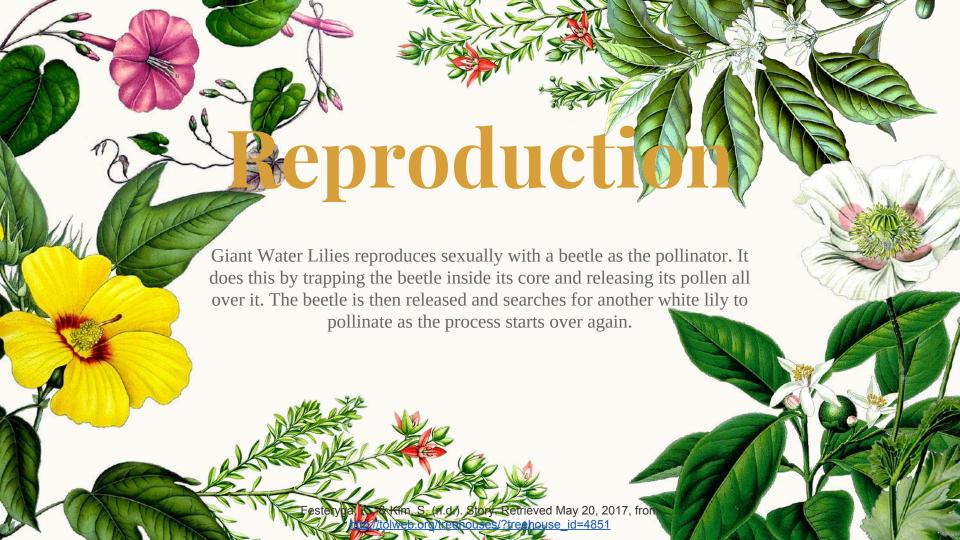
Industrial expansion has caused an increase in pollution for the Amazon River. The Victoria Amazonica resides in the river and it harms the plant due to all the waste.

#### **Deforestation:**

Cutting down trees results in erosion and runoff into the river.









### **Dichotomous Key**



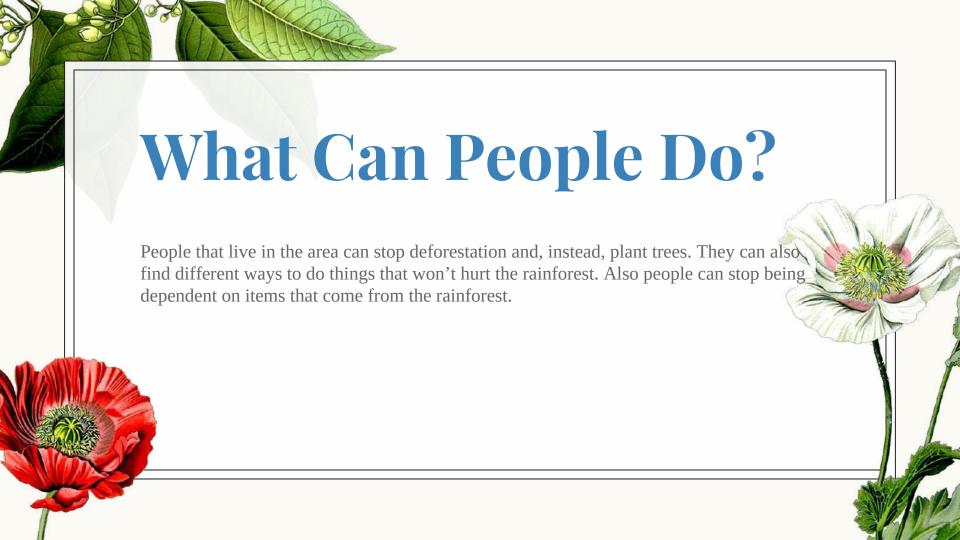
1	a. Has a flat leaf go to 2 b. Is very large in size go to 3
2	<ul> <li>a. Has blue petals and a long stem Nymphaea nouchali</li> <li>b. Has white petals go to 5</li> </ul>
3	<ul><li>a. Has a pink flower and a rimmed edge go to 4</li><li>b. Has bumps all over the leaf <i>Euryale ferox</i></li></ul>
4	<ul> <li>a. Leaf does not have thorns Victoria cruziana</li> <li>b. Leaf has thorns on the sides and bottom</li> <li>Victoria amazonica</li> </ul>
5	<ul> <li>a. Petals are pointed out Nymphaea lotus</li> <li>b. Petals are oval-shaped and are pointed</li> <li>up Nymphaea odorata</li> </ul>





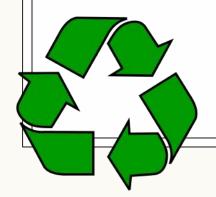
I could help conserve the tropical rainforest by fundraising and donating money to the *Rainforest Alliance Organization*. They have been saving rainforests for 30 years and allow easy access on their website to give money to.







We can inform people about the damage being done to the rainforest and learn to RECYCLE every chance we can get. We can find ways to stop pollution and spread the word to others.





#### Ring-Tailed Lemurs

Climate change is causing the lemurs in Madagascar to move somewhere else. This is very important because lemurs are only from Madagascar and no other part of the world.

#### Amazon Water Lily

For some species, they can move to different locations. However, plants like the Amazon Water Lily can not be moved. Higher temperatures will affect this plant's survival.



http://www.bbc.com/earth/story/20150226-what-hope-is-there-for-madagascars-threatened-lemurs WWF Global

http://wwf.panda.org/what\_we\_do/where\_we\_work/amazon/amazon\_threats/climate\_change\_amazon/amazon\_climate\_change\_impacts/



## U.S. Government

#### **Reservations:**

The government could build parks in Madagascar to help save the lemur population.

#### Laws:

Congress could pass a law about deforestation in Madagascar because lemurs are losing their habitats

#### **Hunters:**

Hunters are trying to hunt the lemurs before they become extinct by paying locals to guide them on these expeditions. The government could make hunting these creatures illegal.







https://mr-js-zoo.wikispaces.com/file/view/Ring-Tailed+Lemur.pptx
https://www.nrcs.usda.gov/Internet/FSE\_PLANTMATERIALS/publications/flpmctn12686.pdf
http://www.rainforest-alliance.org/
http://www.care2.com/causes/5-ways-you-can-save-tropical-rainforests.html
http://kids.mongabay.com/elementary/601.html
http://www.rainforestfoundation.org/10-things-you-can-do-save-the-rainforest/