YOUR MISSION **ENCOUNTER ORCHIDS**



Your Mission, Should You Choose to Accept it: **ENCOUNTER ORCHIDS**

Today you are working as a botanist and an explorer. To complete your mission, you will learn about a very special family of plants...orchids! Orchids are one of the most diverse flowering plant families, so we have lots to look at and explore.

There are lots of things that make orchids unique, or different from other kinds of flowers. Even though there are over 100,000 different kinds of orchids, there are certain clues that we can look for, as plant detectives, to help us know if what we are looking at is this special kind of plant. These plants can be found not only all over the Garden, but also all over the world!

READY EXPLORERS, LET'S GO!

1. Find the Richard H. Simons Rainforest (#29) on your map.

There are several paths to explore in the rainforest, so pick your favorite.

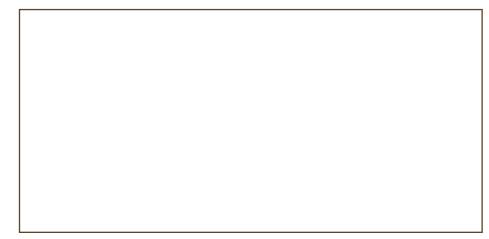
 We can use some clues to tell if the plant we're looking at is an orchid. Tropical epiphytic orchids often have large, dark green leaves and visible roots. It is easiest to identify an orchid when it is blooming, or has a flower on it. Tropical orchid flowers are often bright colors, with elaborate petals, and one petal is usually different from the rest. Keep in mind, A orchid plant is still an orchid, even without a flower, and they live here yearround.

Do you think the plant you sketched is an orchid? .

2. Find The Hsiao Labs on your map (#27) on your map (hint: they're close to the Wings of the Tropics Butterfly Conservatory). Find the Million Orchid Project Lab.

 South Florida used to be covered in native orchids, but unfortunately, through poaching and habitat loss, there aren't many left. South Florida's orchids are unique and special to Florida. In this lab, we're working on growing more of our native Florida orchids to put back into the community. To learn more, watch the video to the right of the lab

- We are on the lookout for orchids. Orchids can be found all over the world, and can look lots of different ways, but the ones most people are familiar with are tropical orchids, like the ones we can find here in the rainforest.
- In the rainforest, many orchids are **epiphytic**, which means they live on other plants (usually trees) without hurting the host. Find a plant that is growing on a tree, and sketch it below. Label the parts of the plant that you can see.



windows.

• Look into the lab. Can you see anyone working? These scientists are working to grow orchids from seeds, that look like dust, and are very tricky to keep alive. How many different kinds of orchids can you spot growing in the window? ____

What is one reason you think we should protect native plants?

FUN TIP! If you want to see some native orchids, there are many scattered around the Garden, including the pine pink (Bletia purpurea) in the Pine Rockland exhibit (#37).

3. Find #19 on your map, and explore the Montgomery Palmetum.

- As you walk to the Palmetum, keep your eye out for orchids. Remember, they can be growing in pots, on trees (and they can be pretty high up!), or in the ground.
- There are lots of kinds of orchids on display in the palmetum, because there are lots of great palms and trees to support epiphytic orchids. How many orchid plants can you find attached to one tree or palm?
- Some orchids are bright colors to attract their pollinator. Find a bright colored orchid, and take a selfie with it.
- Some orchids look like insects to attract their pollinator. Find an orchid that looks like an insect. Sketch the flower and an orchid below.

4. All Great explorers record their adventures

• What was the most interesting thing you saw today?

• What is one thing you learned today?

• What do you want to explore on your next visit?



Buildings, Exhibits, Collections and Points of Interest

- Shehan Visitor Center and The Shop at Fairchild
 Geiger Tropical Flower Garden
 Adam R. Rose & Peter R. McQuillan Arts Center
 Danielson Vine Pergola
 Sibley Victoria Amazonica Pool
 Tropical Flowering Tree Arboretum
 Lougheed Spiny Forest of Madagascar
 Historic Gatehouse
 Alleé & Overlook
 Corbin Education Building
- 11 South Florida Butterfly Garden

- 12 Learning Garden
- 13 Montgomery Garden House
- 14 Garden House Lawn
- 15 Mulch Path
- 16 Bailey Palm Glade
- 17 Cycad Circle
- 18 Moos Sunken Garden
- 19 Montgomery Palmetum
- 20 The Children's Garden
- 21 Whitman Tropical Fruit Pavillion
- 22 Rare Plant House

23 Tropical Plant Conservatory
24 The Clinton Family Conservatory featuring the Wings of the Tropics Butterfly Exhibit
25 Glasshouse Café
26 DiMare Science Village
27 Hsiao Labs
28 Burns Science Building
29 Richard H. Simons Rainforest
30 Garden Club of America Amphitheater & Lougheed Palm Grove