

About Orchids

- The orchid family is the largest plant family
- Over 35,000 species
- Every country in the world and every state in the United States, including Alaska, has orchids!









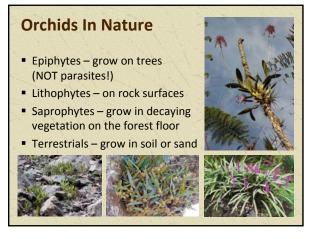
Vanilla Orchids • 60 or so species Throughout the tropical Americas, including Florida and the Bahamas All are vines, several are leafless

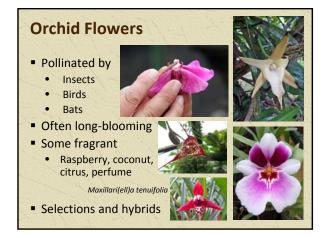
Vanilla Orchids

- Vanilla planifolia (= V. fragrans, V. vanilla) grown commercially
- Yellow-green flowers
- Produces fruit when >10 feet
- Vanilla is the orchid "fruit"
- Harvested before it is fully ripe referred to as vanilla beans
- 6-9" pods are fermented and cured



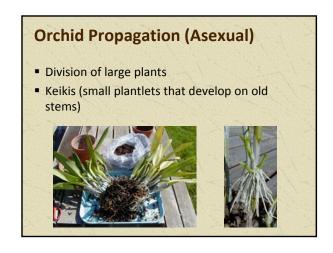


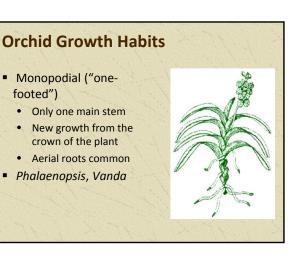


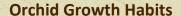




footed")







- Sympodial ("feet together")
 - New seasonal growths
 - Pseudobulbs
 - Rhizome with lateral growth pattern
- Cattleya, Oncidium



Orchid Structure: Roots

- Characteristic epidermis (velamen) prevents water loss
- For water and mineral uptake
- To attach to substrate



Growing Orchids

If you can grow houseplants, you can grow orchids!







Orchid Care: Potting Medium

- Various substrates, plain or in mixes
 - Bark (fir or redwood)
 - Crumbled charcoal
 - Pebbles
 - On tree-fern or cork slabs
- Drains well
- Allows air penetration



Orchid Care: Watering

- Water thoroughly (until water comes out bottom of pot)
- Allow medium to dry out between watering
- Schedule will vary depending on pot, medium, temp, light
- Use rainwater if possible



Orchid Care: Temperature

Classification based on <u>preferred</u> winter minimums

Classification	Nighttime Temperature	Example
Warm	>60°F	Phalaenopsis
Intermediate	50° to 60°F	Cattleya
Cool	50°F	Cymbidium

Orchid Care: Humidity

- 50% or higher
- Enhances flowering
- Increase with humidifier or set on gravel trays with water



Orchid Care: Light

- Need optimum for flowering
- Three categories
 - High
 - Medium
 - Low
- Light to medium green-yellow leaves, NOT dark green



Orchid Care: Light

- South or east windows
- Shadow test
- Artificial light
- Be careful of sunburn when changing locations!





Orchid Care: Fertilizing

- Potting medium
- Recommended
 - · Diluted 20-20-20 weekly
 - Blossom-booster (more P, less N) in fall
- Less is better if you're unsure



Orchid Care: Repotting

- Why?
 - Plant has outgrown its pot
 - · Medium is degraded
- When?
 - · Just as new roots show
 - When roots are 5-6" long

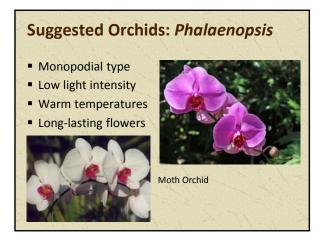


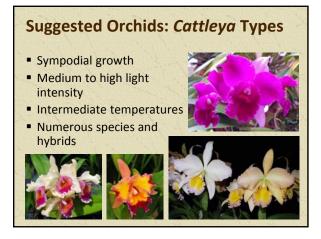


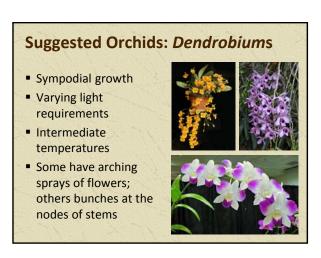
Orchid Care: Repotting

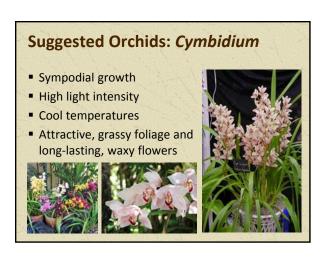
- How?
 - Remove plant
 - Divide if necessary
 - Replace in appropriate sized pot

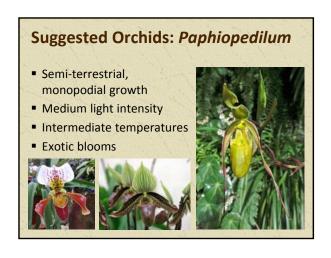














Selecting an Orchid

- The Plant
 - In proportion to the container
 - Healthy roots
 - · Clean and unblemished
 - Turgid and medium green
 - Free of visible pests



Selecting an Orchid

- The Flowers
 - Lustrous and held well above the foliage
 - On a strong, well-supported spike
 - Unblemished and free of fungal spotting
 - Have some buds yet to open
 - Are appealing to you



Learning More About Orchids

- Books
- Websites
- Orchid growers
- Orchid shows



Regional Orchid Shows

- Orchid Quest Late January / early February Madison, WI
- Northeastern Wisconsin Orchid Society Show
 Early March
 Green Bay, WI



