Gardening for Beginners Week 2: How does your garden grow?



This week's class

- Review last week's class
- Seedling progress
- Review Garden sketches
- Plant parts & how they grow and reproduce
- Types of Plants
- Researching
- Garden design



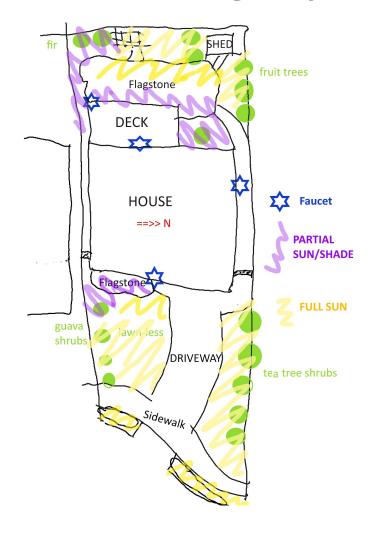
Brief Review of Last Week's Class

Any questions or comments related to Last Week's Class?

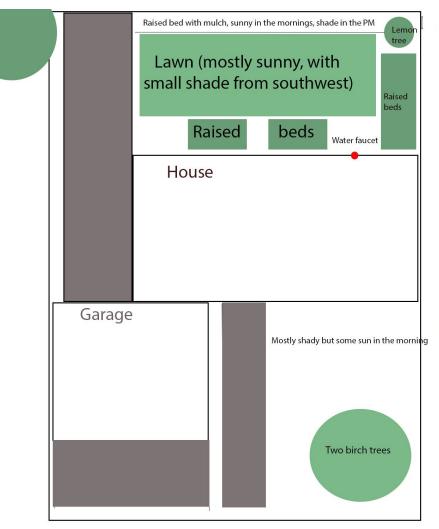
Seedlings progress

Review Garden Sketches

Garden Design by JaneD.



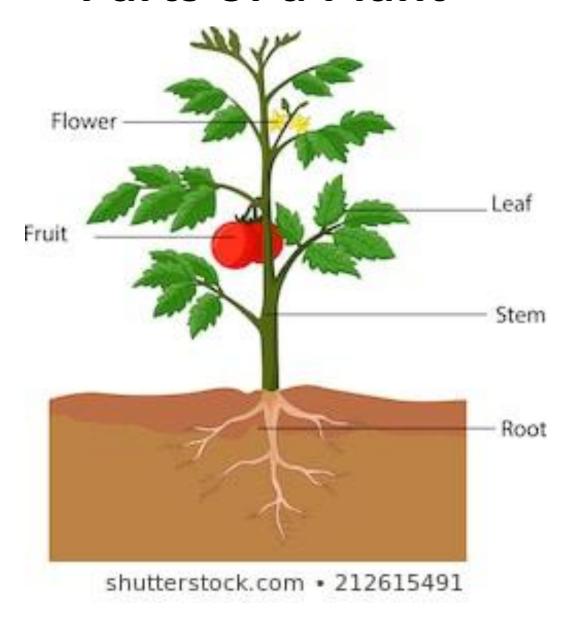
Garden Design by KatL





How Plants Grow & Reproduce

Parts of a Plant





Growth in plants occurs within groups of rapidly dividing cells called **meristems.** Most plants have apical meristems located on the tips of the green shoot and also on the tips of roots below ground.



How do trees grow?



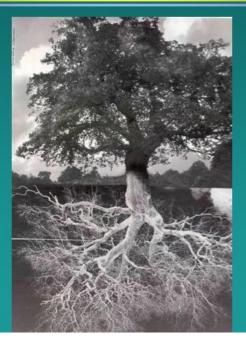
Trees grow at the tips of their branches instead of the base of the trunk, a carving in the tree would actually remain at the same height

•

Carving your name/face in a tree is never a good idea.

Remember, the bark is much like your skin; it protects the tree from the environment,

Tree Root Growth



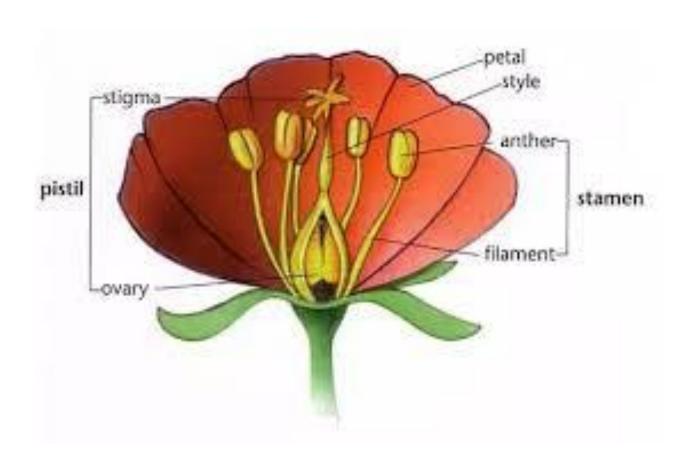
Mimics Top Growth NO!!

from: http://cesacramento.ucanr.edu/files/206880.pdf

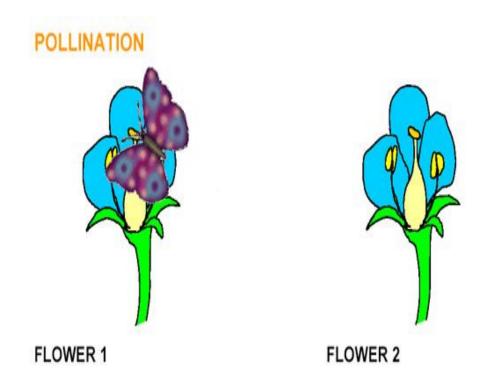
More Typical Tree Root Growth

from: http://cesacramento.ucanr.edu/files/206880.pdf

Parts of a Flower



Pollination via Butterfly



Types of Plants

Annual plants



16

Perennial plants



Plants that reseed

Lupines (perennial) and California poppies (annual)



Annual and perennial weeds

Sow thistle, annual

Bindweed, perennial



by free photos CC BY 2.0

Deciduous

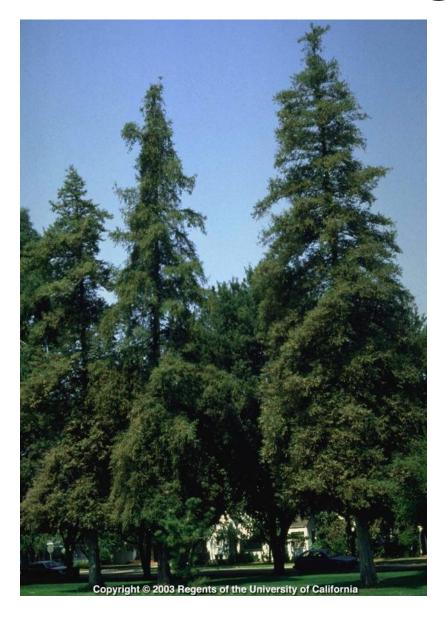


Photo by Marianne Mueller

Why do leaves turn colors and fall off in the fall?



Evergreen



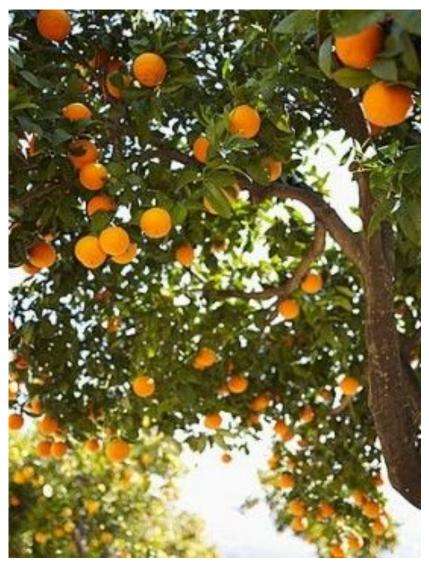


Photo by UC College of Agriculture and Environmental Sciences

Determining type of plant



Photo by Memphis CVB CC BY-ND 2.0

Determing type of plant





Review - What do plants need



What do plants need

- Sun
- Water
- Soil
- Appropriate Climate
- Space

Researching plants

Louise

Researching Plants

- Nurseries
- Arboretums & gardens
- Garden tours
- Take photos
- Get <u>names</u> (common, latin)
- Help Desk, send photo





Berger Native Demonstration Garden

High Density Orchard at Emma Prusch Farm Park, San Jose

Be aware...

Internet searches will often lead to eastern US or UK gardening sites. These may recommend plants that won't thrive in our California climate.

We Recommend



10 Varieties of Rhododendrons to Try in Your Yard (+ Growing Tips)



Gorgeous Landscapes 22 Photos



Choosing the Right Crape Grow Myrtle for Your Landscape Vine



Growing Virginia Creeper



Southern 'Swamp Thing'
Goes National

11 Photos

Improve Internet search by adding key terms:

.edu .org UCANR drought-tolerant, low water, California native Zone 9, Sunset zone 15

"groundcover plant zone 9b site:UCANR" "grow okra California site:edu"

Complete Plant Information

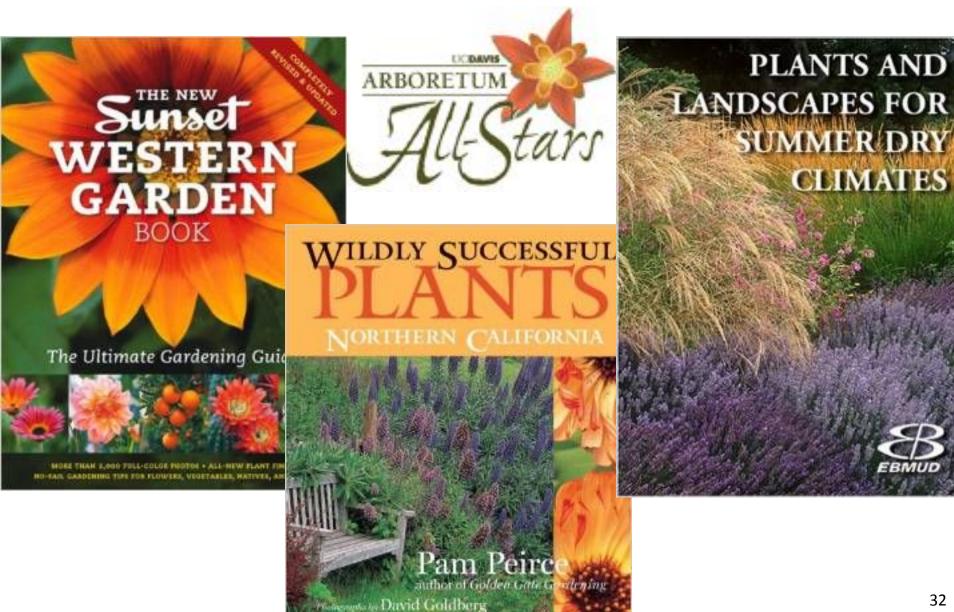
An example from Calscape

https://calscape.org/loc-38.065,-120.597

(95222)/Sisyrinchium-bellum-(Blue-Eyed-Grass)?srchcr=sc5ff4e2e89218d



Some of our favorite sources



Plant lists by situation or function



Design

Denise

Where to find ideas

UC Davis Arboretum

3 designs for a 10x10 planting area

- California natives
- Low maintenance
- Wildlife

https://arboretum.ucdavis.edu/tags/planting-plans

Where to find ideas

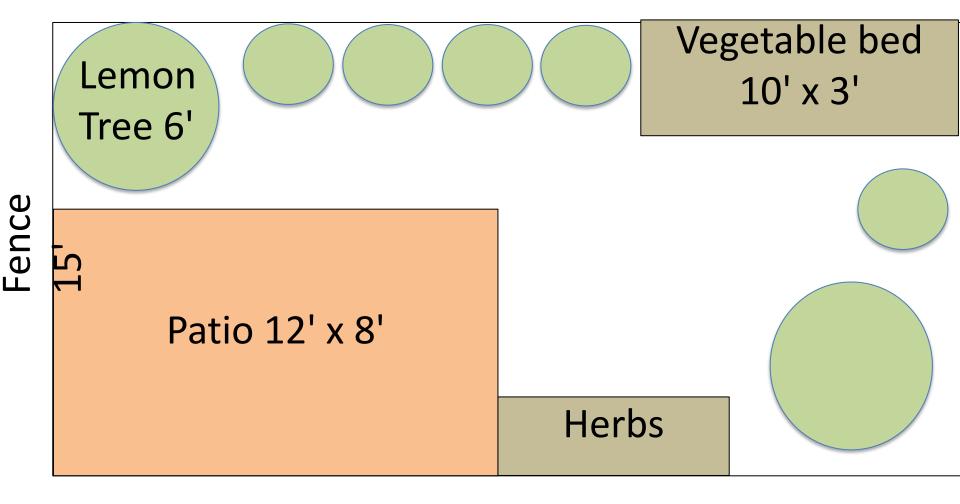
SouthBayGreenGardens.org

Sample designs for

- Small sunny yard
- Edible garden
- Dry creek garden
- more...

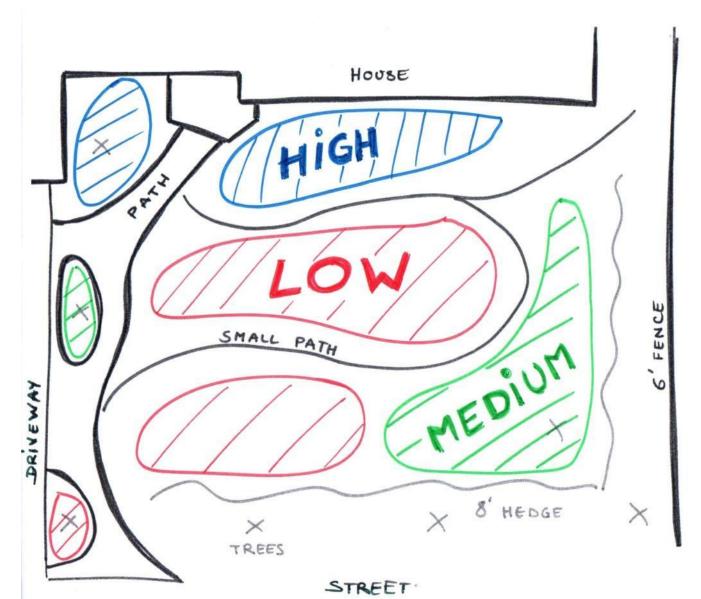
https://www.southbaygreengardens.org/landscape-designs

Sample planting diagram



House 25'

Hydrozone



For next week: Scavenger hunt

Using the resources on your handout, find the following:

- 1. Your USDA climate zone
- 2. Bird attracted to Pineapple Guava
- 3. An interesting garden design (or planting plan)
- 4. Scientific name of Seaside Daisy
- 5. A small deciduous tree native to California
- 6. A vegetable to grow in the fall, winter, or spring (not summer)

For next week: Make a plant list

- A wish-list of 4-5 plants you might like to grow
- You could include plants already in your yard that you want to learn to maintain
- Research and write down their <u>sun</u>, <u>soil</u>, <u>space</u>, and <u>water</u> requirements

For next week: Make a plant list

More considerations:

 Does it attract birds, bees, butterflies, or other beneficial creatures?

mgsantaclara.ucanr.edu Click "Garden Help" then "Waterwise Plants"

Plant lists

Google "list of plants for ______"
For example, "list of plants for <u>a california shade garden</u>"
Handout

Thank you for coming



Sample planting diagram

KARL FOERSTER

ALL-STAR PLANTING PLAN (not to scale)

You can see this planting plant at maturity along Garrod Drive just outside the UC Davis Arboretum Teaching Nursery (across from Vet Med).

This planting plan and three others are available for download at arboretum.ucdavis.edu. Click on Arboretum All-Stars for a plant

