

Welcome to the Lab



In a lab...(p. v)

1. Read the laboratory exercise *before* class.
2. *Plan* your work so that all experiments.
3. Use only the *required* amounts of materials.
4. *Label* all of your experiments.
5. Become familiar with *all parts* of the exercise.
6. Keep *accurate* notes and records at the time you are doing the experiment.
7. *Clean up* your work area when you are finished.

Biosafety (p. vii)

1. Eating, drinking, storing food, and applying cosmetics are **not** permitted in the laboratory.
2. **Wash your hands** after every laboratory exercise. Bar soaps may become contaminated, therefore, liquid or powdered soaps should be used.

Biosafety (p. vii)

9. Tie long hair back.
10. Closed-toe shoes (no sandals) are to be worn in the lab.
11. Don't do unauthorized experiments.
11. Don't use equipment without instruction.
12. Horseplay will not be tolerated in the laboratory.

- Wash and return glassware.
- Plasticware...
- Broken glass...
- Chemical disposal...
- Biohazard disposal...



Get your lab stamped.
Due today:
Safety walk

Beach Keys



What's its name?



Crown of thorns

What's its name?

Crown of thorns



What's its name?



Crown of Thorns Crown of Thorns

What's its name?



Euphorbia milii *Acanthaster planci*

What's its name?



Identification

Dichotomous keys

Identification


Dichotomous keys

- Artificial
- Identification, not classification

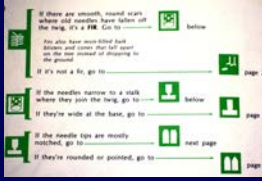

Why ID

- To know what's there
- Diagnose pathogen or pest
 - Streptococcal pneumonia or Legionellosis?
 - Termite or flying ant?
- Treat the snake bite!

Identification Guides



Question with two (di-)choices

Green?
Yes No






Green?
Yes No









Flowers?
Yes No


Tree?
Yes No

Dichotomous...




a plant family is named. Note the family symbol covering that family. Look on these pages for yo

Key to Families

- 1a. Flowers without petals or not apparent. See 5 on p. xvi.
- 1b. Flowers with petals. See 2.
- 2a. Petals 3 or 6. See 15 on p. xviii.
- 2b. Petals 4 or 5 or numerous. See 3.
- 3a. Petals numerous. See 02 on p. xxii.
- 3b. Petals 4 or 5. See 4.
- 4a. Petals 4. See 26 on p. xx.
- 4b. Petals 5. See 37 on p. xxii.



Dichotomous...



Petals 3 or 6
 1a. Petals 3 or 6. See 15 on p. xviii.
 1b. Petals 4 or 5 or numerous. See 3.
 2a. Petals 3 or 6. See 15 on p. xviii.
 2b. Petals 4 or 5 or numerous. See 3.
 3a. Petals numerous. See 02 on p. xxii.
 3b. Petals 4 or 5. See 4.
 4a. Petals 4. See 26 on p. xx.
 4b. Petals 5. See 37 on p. xxii.

Petals absent or inapparent

Yes No






Petals absent or inapparent

Yes No

Flowers in 4s or 5s

Yes No

Petals absent or inapparent



Yes No

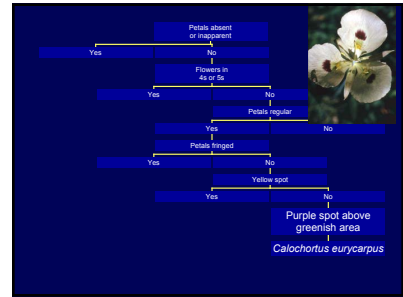
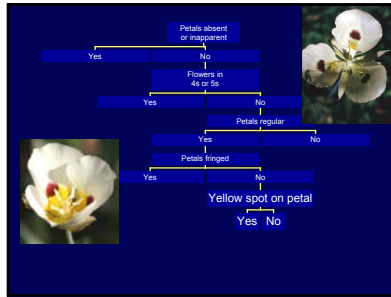
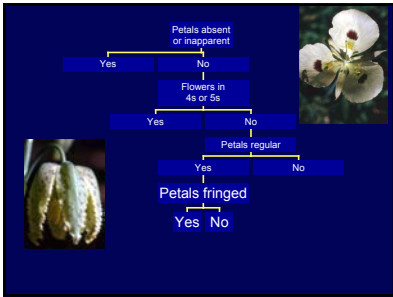
Flowers in 4s or 5s

Yes No

Petals regular

Yes No



Big Pod Mariposa Lily

Rounded to squarish purple spot on upper petal above a greenish area. Basal gland area yellow with long cobwebby hairs.

Phylum: Mollusca

- Soft-bodied (*molluscus*)
- Shell, valve (*valva*)

Class: Chiton

Class: Gastropods

Class: Bivalves

Class: Cephalopods

Class: Scaphopods



Your task: A beach key



Your task: A beach key

