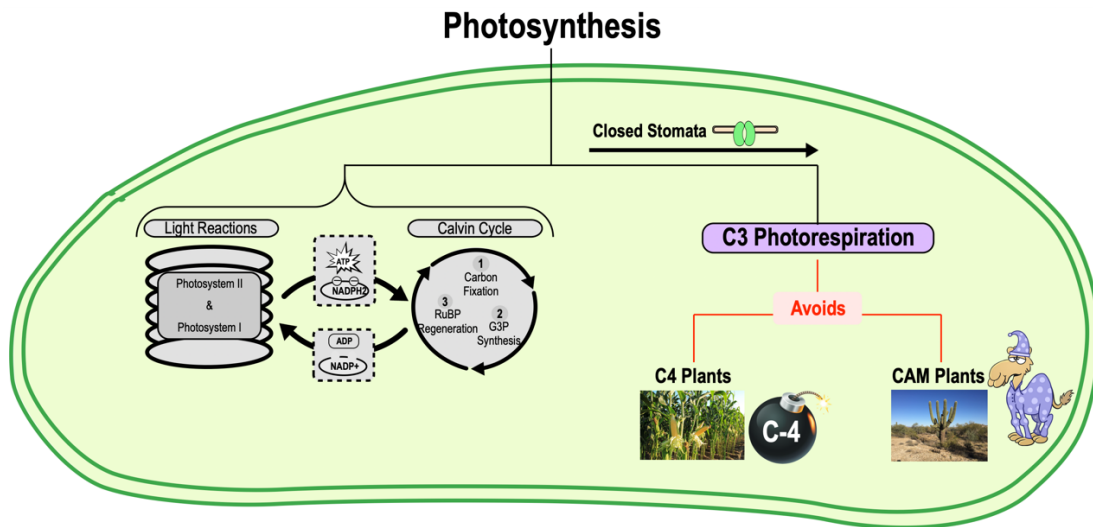


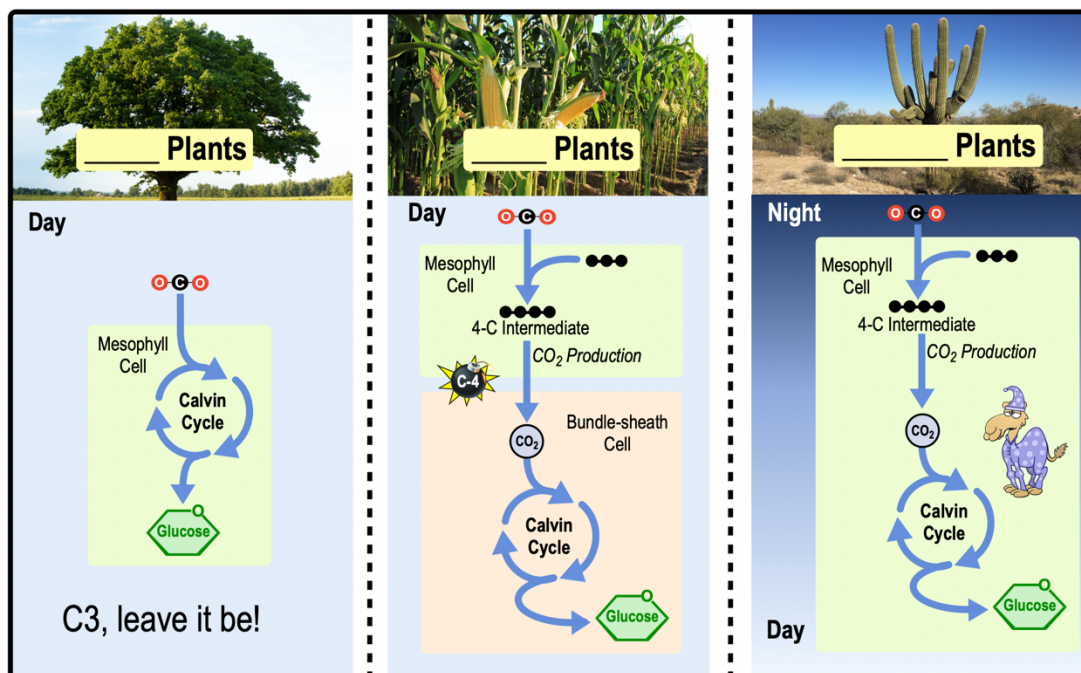
CONCEPT: C3, C4 & CAM PLANTS

- In *hot* temperatures, C3 plants are _____ susceptible to *photorespiration*, but some plants have evolved a *solution*.
 - _____ & _____ plants can *withstand* hot temperatures & _____ photorespiration.



Comparing 3 Types of Photosynthetic Plants

- 1) _____ **Plants:** _____ Carbon fixation round; _____-C intermediate; Light & Calvin Cycle in the _____ cell.
- 2) _____ **Plants:** _____ Carbon fixation rounds; _____-C intermediate; Light & Calvin Cycle in _____ cells.
 - 4-C intermediate can supply additional _____ when CO₂ levels are low from closed stomata.
- 3) _____ **Plants:** _____ Carbon fixation rounds; _____-C intermediate; Light & Calvin Cycle in the _____ cell.
 - Carbon fixation rounds occur at *different* times of the day (stomata _____ at night but *closed* at day).



CONCEPT: C₃, C₄ & CAM PLANTS

PRACTICE: A plant that opens its stomata only at night is a

- a) C₂ plant.
- b) CAM plant.
- c) C₃ plant.
- d) C₄ plant.

PRACTICE: CAM plants keep stomata closed in the daytime to reduce the loss of water. They can do this because they:

- a) Fix CO₂ into organic 4-Carbon compounds during the night.
- b) Fix CO₂ into organic 4-Carbon compounds in the bundle-sheath cells.
- c) Fix CO₂ into pyruvate in the mesophyll cells.
- d) Use photosystem I and photosystem II at night only.