

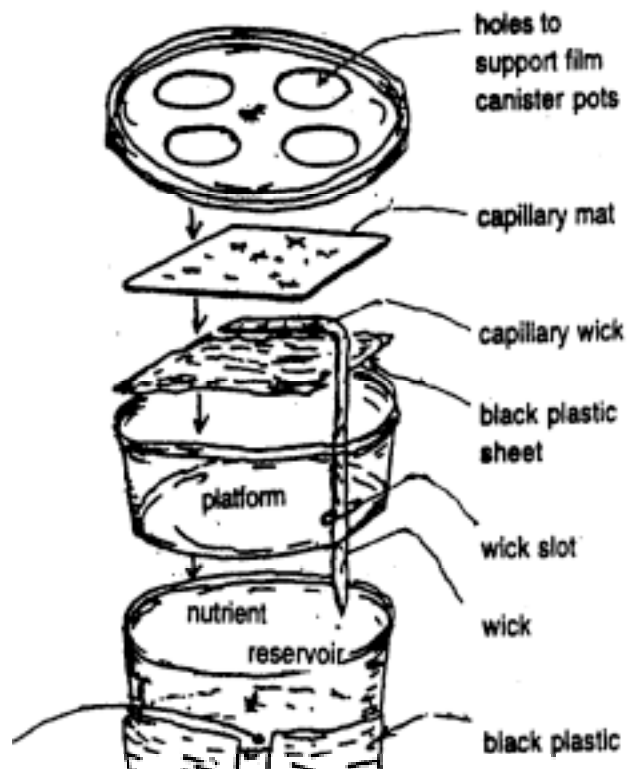
Growing Fast Plants for Genetics Studies in Biology

Gather the following materials for planting:

- 4, plastic film canisters with a 5 mm hole in the bottom to serve as pots for plants
- 1, 15 cm x 0.5 cm, white capillary mat wicks
- 1, 8 oz (small) clear plastic “deli” container with two drain holes to serve as a platform
- 1, clear plastic lid for the small “deli” container with four 10 cm holes to house the film canisters
- 1, 16 oz (large) clear plastic “deli” container, for the nutrient solution, with a small nutrient overflow hole in side
- 1, 7.5 cm², white capillary matting, to set potted plants on
- 1, 5 cm x 30 cm black plastic for wrapping around 16 oz ‘deli’ container to prevent algae growth
- 1, 7.5 cm², black plastic for placing under the 7.5 cm² white capillary matting
- 4, 0.5 cm x 2 cm, diamond wick
- 1, scotch tape to hold the black plastic wrapping together and to hold seeds
- 1, forceps to manipulate the small diamond wicks
- 1, water bottle for watering the soil
- 1, plastic spoon for handling potting soil
- 1, roll of masking tape for labeling the pots
- 1, cup for collecting potting mix from a central source in room
- paper towels to prevent a mess while planting seeds

Preparing the pots using the **above materials**:

- set up the above materials just as you see them in the diagram at the right
- use the scotch tape to secure the 5 cm x 30 cm black plastic around the 16 oz ‘deli’ container
- premoisten the 15 cm wick and the 7.5 cm² capillary net
- insert the 15 cm wick through the slot in the 8 oz “deli” in container
- make certain to place the 7.5 cm² capillary net over the wick
- with forceps, insert a prewetted diamond wick into each of the film canisters.



**nutrient
overflow
hole**

Planting the seeds

- use your cup to collect planting mix from a central source in room.
- put down some paper toweling to prevent a mess while planting.



- loosely fill all of the film canister pots with planting mix.

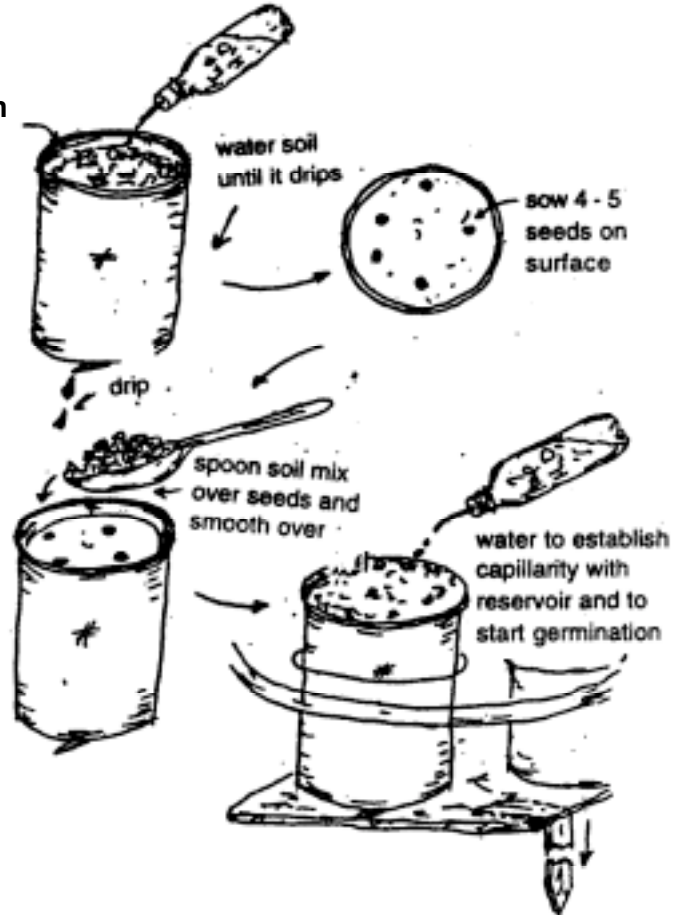
- tap, tap to settle planting mix (*never press soil down!*).

- scrape off excess soil to level while holding the film canister over your cup to prevent a mess.



- use the diagram at the right to finish planting seeds.

soil shrinks upon soaking



- use masking tape to label P1, P2, and F1 labels.