

Bottle Biology : Umbrella Bottle Tree

Bottle Biology : Umbrella Tree.

- Hanging Gardens, Ecocolumns, Tools, Experiments

- accessible, secure, compact, visible.

- Materials:-

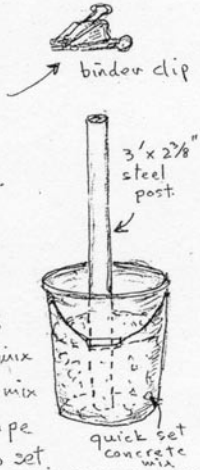
- Folding Umbrella or bicycle wheel
- 1 1/2" i.d. x 5', PVC water pipe.
- 2 3/8" o.d. x 3', steel, terminal fence post
- 1, 5 gal bucket
- 1/2 bag, Quickcrete® - concrete mix
- roll, Duct Tape
- 1, 3 1/2" nail
- water
- large paper clips
- small binder clips

- Equipment:-

- 3/16" drill bit & drill.
- small levelling tool.

- Preparation:-

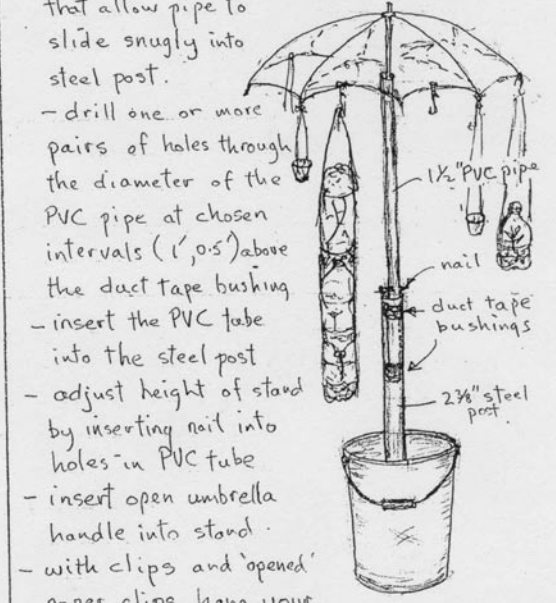
- place steel post in bucket, center it & add 1/2 bag (~40lb) concrete mix
- add water to concrete mix
- with 'level' set steel pipe to vertical, allow mix to set.



Bottle Biology : Umbrella Tree - cont'd.

- Preparation, cont'd :-

- on 5' PVC pipe wrap sufficient number of turns (layers) of 'duct tape' at end of pipe and ~1' from end to create 2 'bushings' that allow pipe to slide snugly into steel post.
- drill one or more pairs of holes through the diameter of the PVC pipe at chosen intervals (1', 0.5') above the duct tape bushing
- insert the PVC tube into the steel post
- adjust height of stand by inserting nail into holes in PVC tube
- insert open umbrella handle into stand.
- with clips and 'opened' paper clips, hang your Bottle Biology constructions.



www.bottlebiology.org

Most materials for this Bottle Tree can be obtained at Home Depot or other general hardware stores.



Bicycle Wheel Bottle Tree



Terraqua Bottle