How to Build the 11 Plant Hydroponic Garden

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The 11 Plant Garden is a compact ebb and flow hydroponic garden made out of 1 inch PVC pipe, 1 inch fittings and recycled 2 liter soda bottles.
11 Plant Garden

11 - 2 liter bottle caps with a 1/2 inch

6 - 1 inch

1 inch tee with threaded 1/2 inch inlet

1 - 1 inch hose

11 - 1 inch long

14 - 1 inch tees

12 - 4 inch long pieces of 1 inch

4 - 6 inch long pieces of 1 inch pipe

1 - 4 1/2 inch long

5 - 2 1/8 inch long pieces

1 - 7 inch long
11 Plant Garden Parts List

14 - 1" PVC Tees
6 - 1" PVC Corners
1 - 1" PVC Tee w 1/2" threaded Inlet
1 - 1/2" Hose Connector

1 - 10 ft. piece of 1" PVC SLD 26 (thinwall) pipe cut
  1 - 7" long
  4 - 6" long
  1 - 4 1/2" long
12 - 4" long
  5 - 2 1/8" long
11 - 1" long

11 - 2 liter bottle caps with a 1/2" hole drilled through them.
11 - 2 liter bottles cut in half.
Glue 6 pieces of 4 inch pipe to:

3 tees lying flat

with 2 tees and 2 corners facing up
Make 2 of these exactly the same. One will be the right side and one the left side of your 11 plant garden.
Glue the 2 1/8 pieces of pipe in 2 tees facing up.

And the threaded tee lying flat.

Make sure all three pieces are the same length.

1/2 inch threaded 1 inch tee.
Glue the two sides of the garden with the three middle sections.
Then glue the 2 liter bottle caps with a 1/2 inch hole drilled in them into the inserts.

Glue 1 inch thin wall PVC (SDR.26) inserts cut 1 inch long into 7 of the 1 inch tees and the 4 corners of the garden.
Glue 11 of the 1 inch thin wall PVC inserts and 11 of the bottle caps into seven of the 1 inch tees and four of the 1 inch corners as shown in the next slide.
Glue the 1 inch inserts and the bottle cap with the hole in 7 of the 1" Tees and in the 4 corners as shown.

This tee is for the overflow pipe.
Glue two of the 1 inch corners to one of the short 2 1/4" pieces of pipe

Next glue the 5" pipe into one side and the 7" pipe into the other side.
The pump comes on and fills the bottles to the height that the overflow pipe is cut to.

Don't forget to drill a small hole in the top of the overflow pipe to prevent the siphoning effect.