

# 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.

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



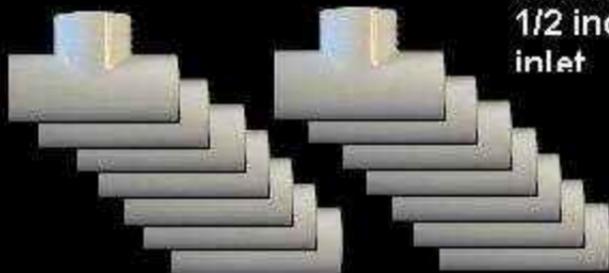
6 - 1 inch



1 - 1 inch tee with threaded 1/2 inch inlet



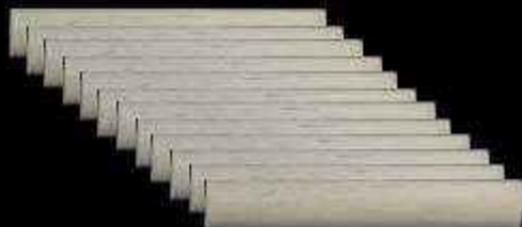
11 - 1 inch long



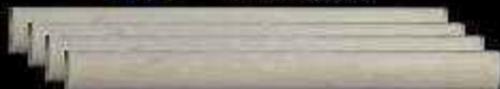
14 - 1 inch tees



1 - 1/2 inch hose



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



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[Parts List](#)

# 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.

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Glue 6 pieces of 4 inch pipe to:

3 tees lying flat



with 2 tees and  
2 corners facing up

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Make 2 of these exactly the same  
One will be the right side and one  
the left side of your 11 plant  
garden.

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Glue four  
6 inch pieces  
of pipe in 2 of  
the tees

Make sure  
all three  
pieces are  
the same  
length



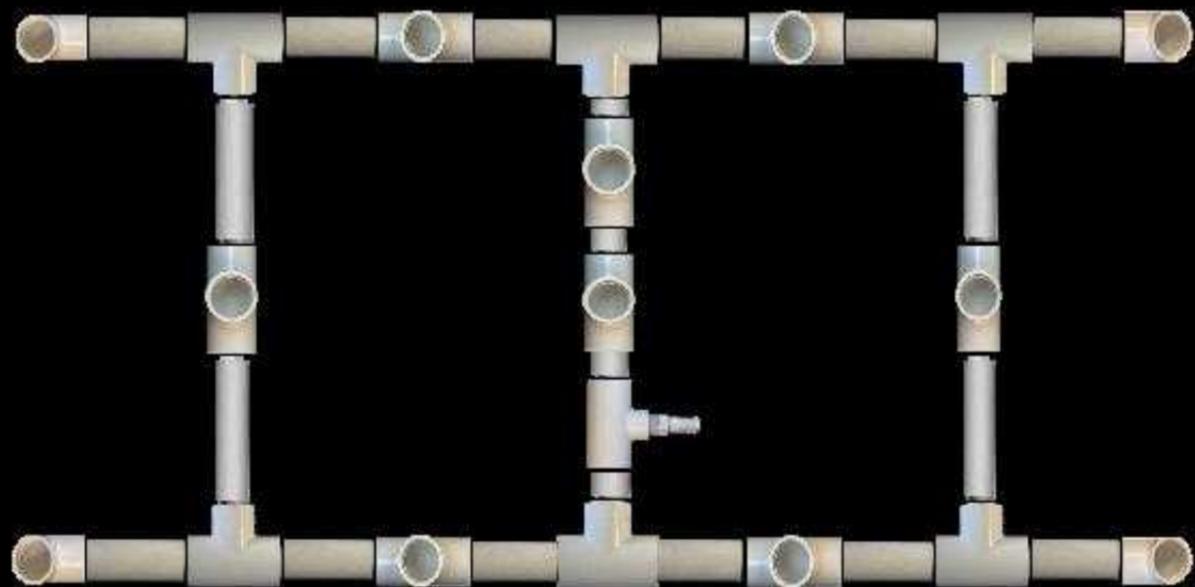
Glue the 2 1/8  
pieces of pipe  
in 2 tees facing  
up

And the  
threaded tee  
lying flat

1/2 inch  
threaded  
1 inch tee



Glue the two sides of the garden  
with the three middle sections



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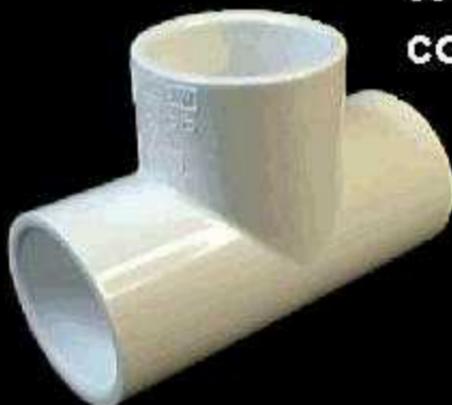
Then glue the 2 liter bottle caps with a 1/2 inch hole drilled in them into the inserts.



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



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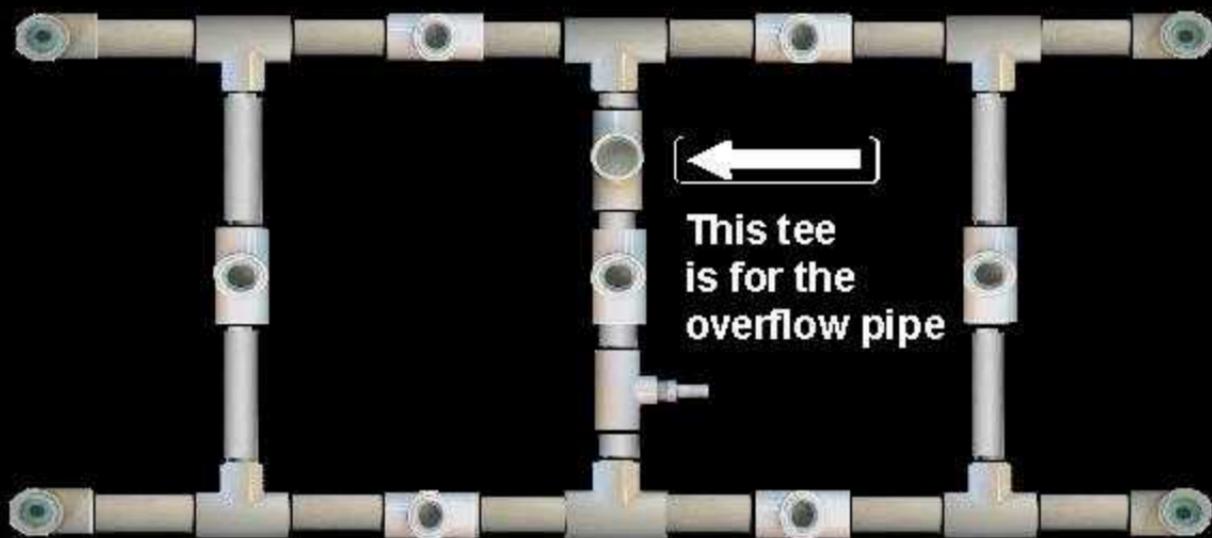
**Glue 11 of the 1 inch thin wall PVC inserts and 11 of the bottle caps into seven of the 1 inch tees and four of the 1 inch corners as shown in the next slide.**

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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

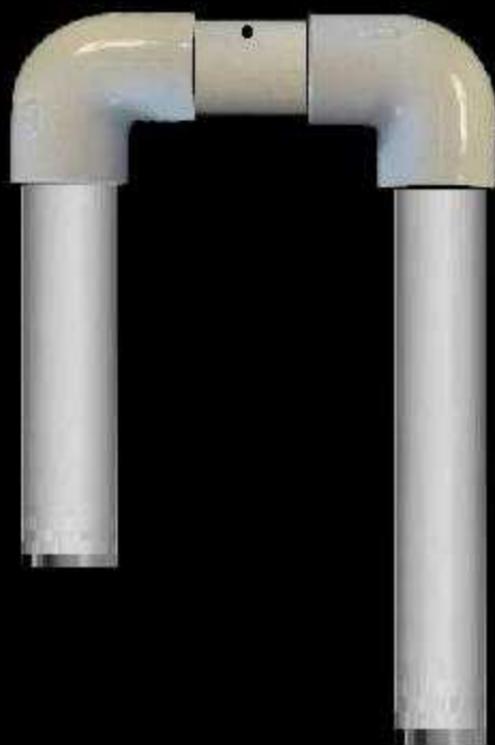


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## Over Flow Pipe

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

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The pump comes on and fills the bottles to the height that the over flow pipe is cut to.

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

