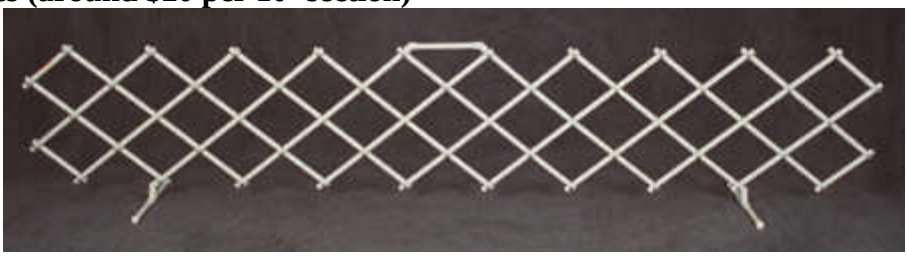
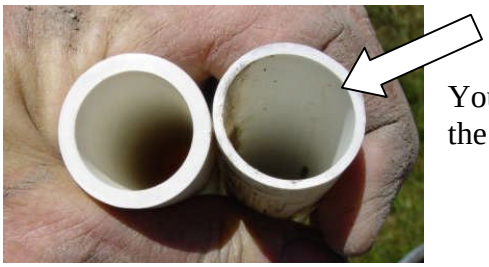
DIY- PVC ring gates (around $20 per 10’ section)



Needed for each 10’ section of gating:

(6) 10’ PVC pipe ½” diameter
(4) 45 degree PVC connectors
(2) PVC “T” connectors
(4) ½” end caps (optional but recommended)
(42) Screw posts http://www.screwpost.com/product_info.php?cPath=1&products_id=13



You don’t need Sch. 40 pipe; the thinner PVC pipe can be used. This keeps the weight down and is easier to cut. ½” diameter

45 degree elbow, T connector and end cap (1/2” un-threaded)

2” screw posts will be the means of connection and pivot. These come in 100 per bag at the link above for under $20. So you can get 2 sections out of 1 bag.

Cut 10’ PVC in the following dimensions:

33	33	25			25
33	33	25			25
33	33	33		9	9
33	33	33		9	9
33	33	33	6”	6”	6”
33	33	33	6”	2”	2”

So you should end up with:

16 pieces that are 33” long
4 pieces that are 25” long
4 pieces that are 9” long
4 pieces that are 6” long (for the feet)
2 pieces that are 2” long (to connect top of T on the feet to the 45 degree connectors on gate)
Note: the 10” piece left over will be used as the stabilizer section seen across the top of the gate. You’ll cut this to the length you desire after you have assembled the gate.

Drill holes in the PVC to match the diameter of the posts. The posts should be snug in the holes. It is recommended that you place the pipe in a jig or clamp so that all the holes can be drilled along the same center line.

For each of the 33” and the 25” pieces (4 holes per pipe):

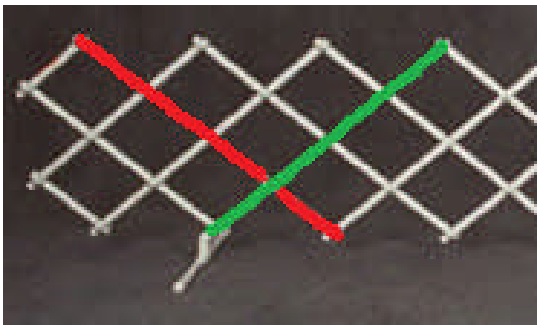
Drill a hole .5” from each end
Drill a hole 8.5” from each end
Note: There is no hole/connection along the center of the gate where each pipe crosses.

For each 9” piece:

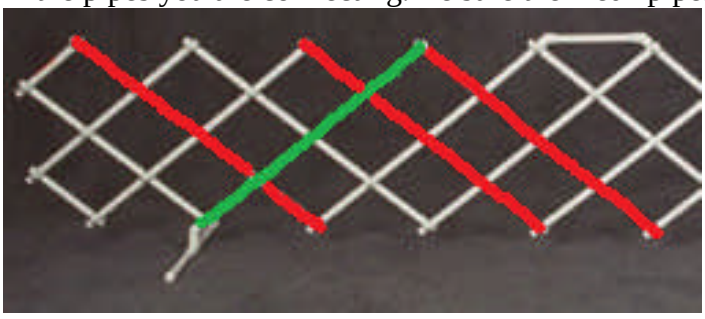
Drill a hole .5” from each end

Start Assembly:

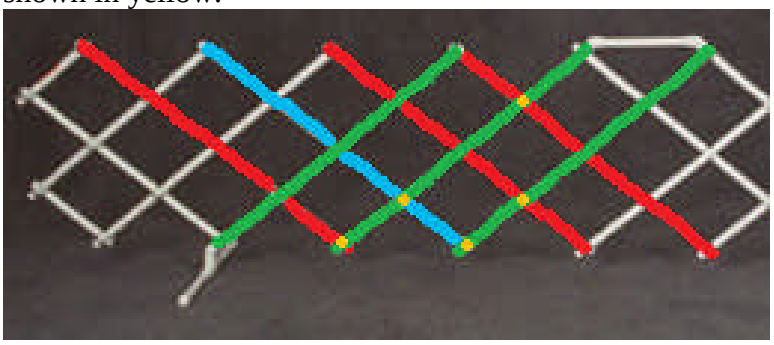
Start with the 33” pieces and connect one of the pipes (in red) to another pipe (in green) using the holes 8.5” from the end of each.



Next, add 2 more pipes (shown in red) to the other end of the pipe represented in green. Always match the holes in the pipes you are connecting. Be sure the “red” pipes are UNDER the “green” pipes.



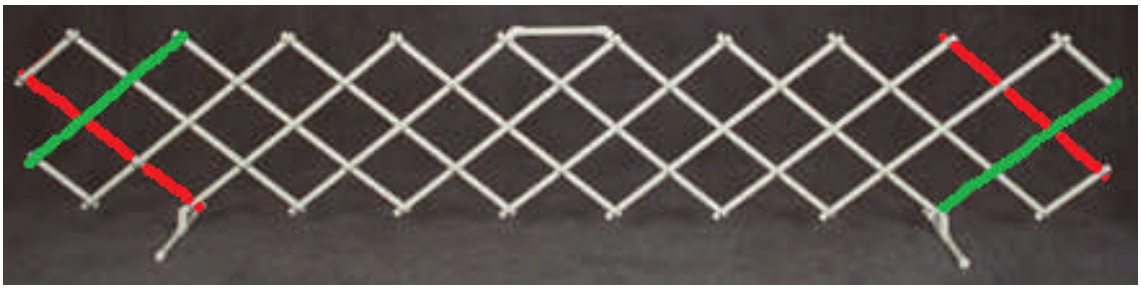
Next add the pipes shown below (2 more in green and 1 under shown in blue.) The new connection points are shown in yellow.



From the point above it should be fairly easy to see how the remainder of the 33" pieces connect.

Ends:

Note the pieces colored below that are the 25" pieces: The pieces shown in green will be on top of the pieces shown in red. Add the 9" pieces last.



Feet:

Connect a 45 degree elbow to the gate as shown above (2 elbows).

Then put a 2" piece into the bottom end.

Slip the base of the T connector over the exposed end of the 2" piece (T will be upside down.)

Add a 6" piece to each opening of each T. Adding caps to these ends will prevent a slight wobble.

Extension piece:

The horizontal piece shown across the top of the gate will keep the gate from extending further than desired (which would make the gate very low.)

To determine the length you'll need to cut the horizontal piece, slip 2 elbows onto the gate where shown (either end of the spreader piece.)

Extend the gate to the length desired (about 10') and measure the distance between each open end of the elbows. Add 1" to account for the length of pipe that slips inside each elbow. Cut your pipe to that length.

Glue the elbows to the ends of the extension pipe (optional) but do NOT glue the other ends of the elbows to the gate unless you never want to collapse it for storage or transport. You need to be able to remove this piece to "fold up" the gate.