

## Making a quadrat

Quadrats are relatively simple and inexpensive to make. You'll need the following materials and supplies for one 1 meter x 1 meter square quadrat.

20 feet of  $\frac{3}{4}$ " PVC pipe (there are different grades of pipe—look for the cheapest kind)

4 ea.  $\frac{3}{4}$ " PVC elbows (90°)

PVC cement

Hacksaw or PVC cutters

Drill with small bit ( $\frac{1}{4}$ " or so...)

String

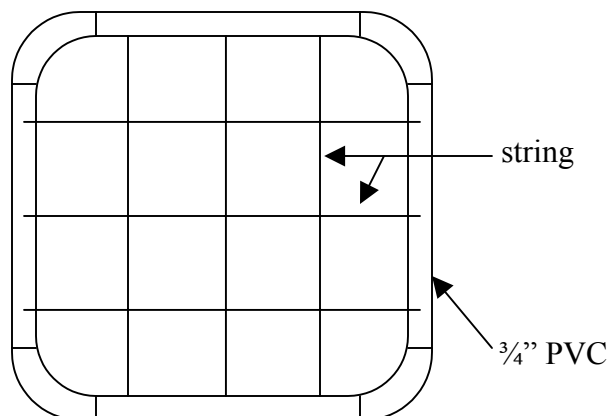
Tape measure

### Instructions:

- Cut the PVC pipe into four 39" pieces
- Working in a well ventilated area, use PVC glue to attach elbows to one piece of PVC. It is best to do this on a flat surface, so you can make sure that the elbows are in the same plane. Use PVC glue to attach the rest of the PVC together in a square.
- Measure the center point of each side of the quadrat, and also mark the  $\frac{1}{4}$  and  $\frac{3}{4}$  points. Drill a hole completely through the PVC at each of these points on each side. These holes will be used to attach strings and also so that the quadrat will sink if used in water.
- Tie the string through the holes from opposite side to opposite side so you end up with a grid that divides the quadrat into 16 equal squares. You may need to burn the ends of the string to prevent it from unraveling.

The inside dimensions of the finished product should be approximately 1 m (39.4") on each side.

To make a smaller ( $\frac{1}{2}$  m) quadrat, simply reduce the size of the PVC to the desired length.



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