

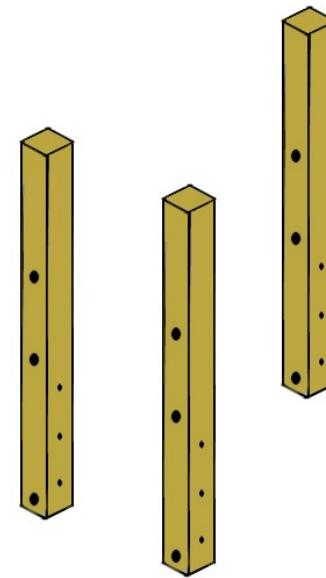
Arrow of Light Bridge Assembly:

Materials (all stored in the Pack container):

- 4 - 8ft 4x4 - w/pre-bored holes for pipe
- 6 - 10ft pipe - 3/4 diameter w/end caps
- 6 - 3ft pipe - 1/2 diameter w/end caps
- 12- Treads w/ Scout Law routed on them
- 1 - Spool of rope (orange reel w/ AOL Bridge written on it)

Setting up framework:

The 4x4's make up the four cornered frame of the bridge:

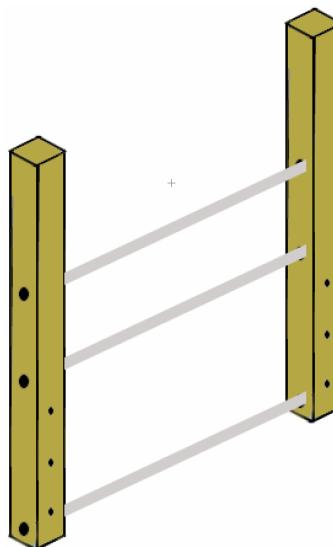


The pipes feed through the bored holes to tie the structure together.

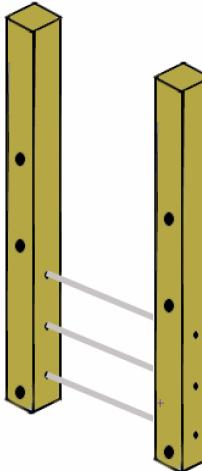
Before assembly, fit the pipes into all the holes to make sure they still fit properly. Holes may shrink over time and make assembly difficult.

Smaller diameter holes are 7/8, larger holes are 1-1/8

Note any 4x4's with previous crossover markings - these should face toward the side the scouts will enter on.



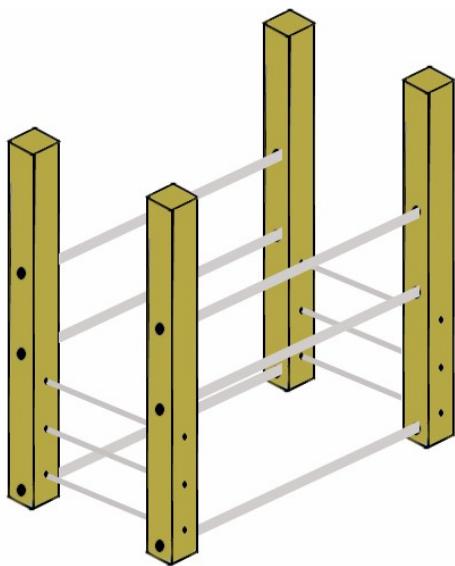
The 3/4 pipe make up the length of the bridge - pipe passes through 4x4 and end caps screwed on.



The 1/2 pipe make up the width of the bridge - pipe passes through 4x4 and end caps screwed on.

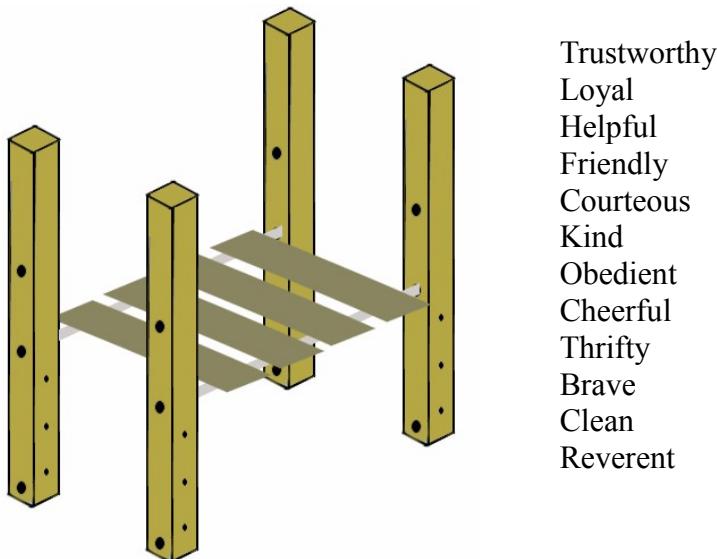
Note: It seems easiest to assemble the two ends first, then install the 3/4 pipe to tie the ends together. A rubber mallet might be needed to tap things into place.

Frame Structure should now look like this, and ready for the treads:



Laying treads onto structure:

- Lay treads out on the middle row of 3/4 pipe to make the walkway of the bridge.
- Each tread has a word from the Scout Law.
- Lay the treads so the scout walks the Law in order as he crosses:



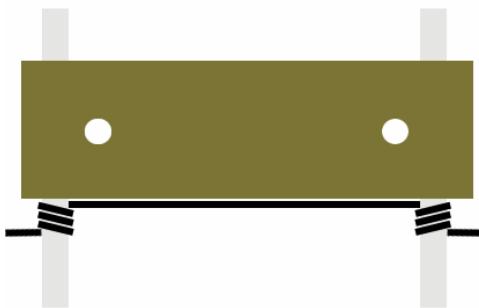
Securing Treads:

Last step is to use the rope to tie down the treads so they don't slip off while the scout walks across.

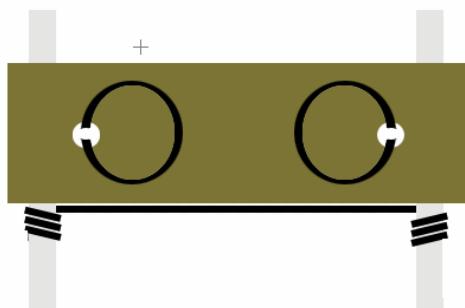
Unroll rope from spool, find center of the length, have helper coil both rope ends back to center.



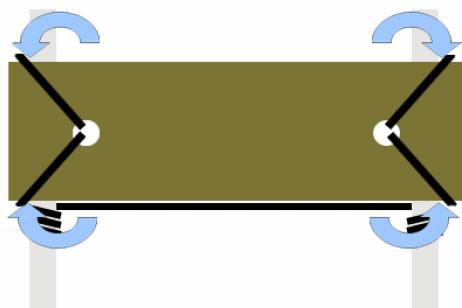
Keeping the center point of rope about center on the 1st tread, make a couple wraps around pipes at the 1st tread to keep the rope from slipping.



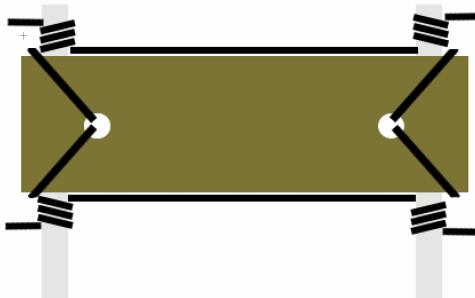
Push a loop of rope up through the bored hole on tread



Slip the loop around the end of the tread.



Pull out slack and make a couple of loops after the tread to hold it in place.



Continue looping and wrapping all 12 treads. Use a clove hitch to secure the rope after the last tread and let the excess rope (there will be plenty) sit on the ground until time to break everything down.

Final Note- Mark a Bridge Post with your Pack #, Crossover Year, and Patrol Name (or Den #) so as to create a history of all who have crossed this bridge.