

Spear

- **Spear (Yellow Class):** electricians tape, 1/2" PVC pipe, 1/2" and 3/4" foam pipe insulation, tube sock
 - o **Cut:** 7 foot length of 1/2" PVC pipe, a 34" length of 1/2" pipe insulation, a 24" length of 3/4" insulation, and a 5" length of 1/2" insulation
 - o Slip the 1/2" insulation over the PVC pipe, MAKE SURE to leave 4" overhanging the top of the PVC pipe, so that only 30" of the pipe are actually covered, remove the plastic covering the adhesive ends and fix the insulation ends together



- o Slip the 3/4" insulation over the 1/2" insulation, doubling the insulation padding, MAKE SURE to leave 4" overhanging the top of the PVC pipe, so that only 30" of the pipe are actually covered, remove the plastic covering the adhesive ends (do on press down, leave the adhesive ends exposed)



- **Cut:** a 34" length of $\frac{3}{4}$ " insulation, that is 1" wide, use this to plug the gap exposing the $\frac{1}{2}$ " insulation – press the adhesive ends onto the ends of this 1" length fixing them together



- 30" of the pipe should now be covered by 2 layers of insulation, leaving a 4" gap over the top of the PVC
- Making sure that 4" of the double insulation padding are above the top of the PVC, cut 2 little wedges of insulation and stuff them down into the top, filling in the 2" void



- Use two, 2” strips of tape to cover the top, sealing the wedges into the void. - but DO NOT use too much tape, this could make your weapon too heavy and disqualify it.



- Use 4 strips of tape to fix the bottom of the insulation onto the plastic “handle” section of the PVC pipe – secure it fully, but DO NOT use too much tape, this could make your weapon too heavy and disqualify it.



- Slip the 5" length of 1/2" insulation over the bottom of the PVC, leaving a 3" gap overhanging



- Use tape to secure the 5" length, DO NOT fill the void like you did on top - but DO NOT use too much tape, this could make your weapon too heavy and disqualify it.



- Using the tube sock, cover the 34" length from the top down,



Using tape to secure the sock to the ¾" insulation that should be left exposed - but DO NOT use too much tape, this could make your weapon too heavy and disqualify it.



It should be done, and the top should look like this:

