

## Supplies:

- 3 ft. piece of 3/4" PEX pipe
- 31" piece of nylon string
- (3) 18" 5/16" dowels
- 3.5" of grey pipe insulation (for 3/4" pipe)
- Duct tape
- Decorative tape (optional)
- Serrated knife
- Wire cutters
- 16 oz plastic cup or other sturdy plastic
- 3 pencil cap erasers
- Permanent marker or pen
- Super glue

## Steps to make the bow:

1. Using wire cutters, cut out a notch on each end of the PEX pipe so that the notches line up.
2. Tie a large knot in each end of the nylon string.
3. Slip one knot into the top of the PEX pipe notch.
4. Use a piece of duct tape to cover the end of the pipe and keep the knot in place.
5. Turn the pipe over so the second notch is up and bend the pipe so that you can place the second knot into the second notch on the pipe.
6. Cover the second end of the pipe with tape. You now have a bow.
7. (optional) Wrap decorative tape around the bow from top to bottom.
8. Place the 3.5" pipe insulation around the middle of the bow for your grip.

## Steps to make the arrows:

1. Place each of the pencil erasers on one end of each of the dowels.
2. Using the serrated knife, cut a notch in the end of each dowel.
3. With the marker, draw and cut out 3 veins for each arrow from the plastic cup.
4. Measure about an inch from the end of notched end of the arrow.
5. Super Glue the first vein perpendicular to the notch and the other two about a 1/3 of the way around.
6. Allow the glue to dry, then test how far your arrows can fly.

