

Instructions for a 646Q Woven Heart Arch

To keep assembly time to a minimum, gather the materials and read through the instructions before beginning.

646Q Woven Heart Arch

Labor: About 45 Minutes

Materials needed for a 10'H x 11'W (3m x 3.4m)

Air-filled Arch:

91 646Q Giant Airship White Balloons 75451

54 646Q Giant Airship Pink Balloons 75449

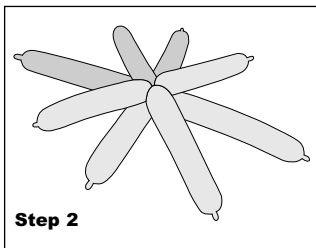
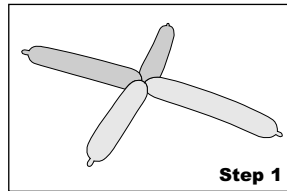
16 11" (28cm) White Latex Balloons 43802

4 5" (13cm) White Latex Balloons 43607

1 260Q White Latex Balloon 43962

Instructions:

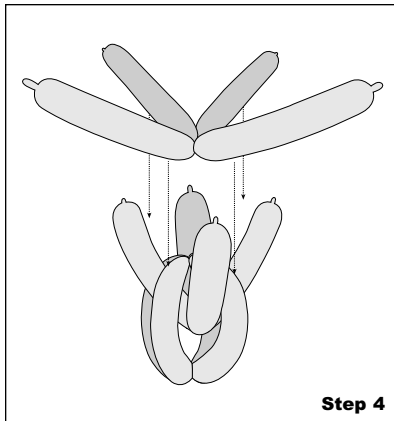
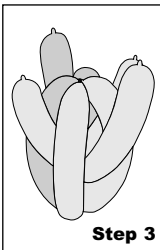
1. Build one side of the arch at a time, beginning from the center of the Heart's "point." Air inflate two White 646Q balloons to about 15" (38cm), and tie the necks together to make a duplet. These balloons will be the "inside" duplet. **NOTE: See measurement chart for all duplet lengths & colors.** Inflate two Pink 646Qs to about 11" (28cm), and tie them into a duplet. These balloons will be the "outside" duplet. Twist two balloons together, one from each duplet, to make a 4-balloon cluster, being sure balloons of the same size are next to each other. Lay the cluster down on a flat surface to make an "X."



the "outside" duplet. Twist two balloons together, one from each duplet, to make a 4-balloon cluster, being sure balloons of the same size are next to each other. Lay the cluster down on a flat surface to make an "X."
2. Make a second cluster using White for both inside balloons, and one Pink and one White for

the outside balloons. **NOTE: See measurement chart for all duplet lengths & colors.** Lay it on top of the first cluster, rotating it 45 degrees, and making sure to keep all the White balloons on the same side.

3. Bring the tips of two opposing balloons from the first cluster up and tie them together. Repeat with the remaining tips from the first cluster,



tying the ends of both duplets together.
4. Make a third 4-balloon cluster using all 15" balloons in the same colors as the first cluster, with all White balloons for the inside duplet, and all Pink balloons for the outside. **NOTE: See measurement chart for all duplet**

lengths & colors. Lay it on top of the second cluster, rotating it 45 degrees and making sure to keep all the White balloons on the same side.



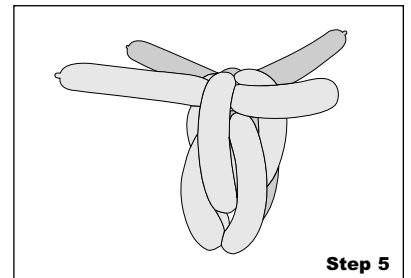
Original concept by Larry Moss, CBA, Balloon HQ, Rochester, NY, USA. Based on an original design by Bruce Walden, CBA, Walden Productions Inc., Toronto, Ontario, Canada.

Measurement Chart

NOTE: Measurements shown are for one side of the Arch. Repeat the process to make the other side.

Area	Cluster #	Inside Duplet (Balloons)	Outside Duplet (Balloons)
Center Point	1 (Step 1)	15" (38cm) (2 White)	11" (28cm) (2 Pink)
	2 (Step 2)	15" (2 White)	11" (1 Pink, 1 White)
	3 (Step 4)	15" (2 White)	15" (2 Pink)
	4 (Step 5)	15" (2 White)	15" (1 Pink, 1 White)
Curve Transition	5	15" (2 White)	19" (48cm) (2 Pink)
	6	15" (2 White)	21" (53cm) (1 Pink, 1 White)
Curve	7	15" (2 White)	22.5" (57cm) (2 Pink)
	8	15" (2 White)	22.5" (1 Pink, 1 White)
	9	15" (2 White)	22.5" (2 Pink)
	10	15" (2 White)	22.5" (1 Pink, 1 White)
Straight Transition	11	19" (2 White)	22.5" (2 Pink)
	12	21" (2 White)	22.5" (1 Pink, 1 White)
Straight	13	22.5" (2 White)	22.5" (2 Pink)
	14	22.5" (2 White)	22.5" (1 Pink, 1 White)
	15	22.5" (2 White)	22.5" (2 Pink)
	16	22.5" (2 White)	22.5" (1 Pink, 1 White)
	17	22.5" (2 White)	22.5" (2 Pink)
	18	22.5" (2 White)	22.5" (1 Pink, 1 White)

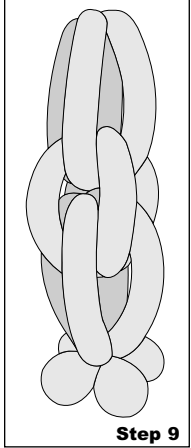
5. Bring the tips of two opposing balloons from the second cluster up and tie them together. Repeat with the remaining tips from the second cluster, tying the ends of both duplets together. Repeat Steps 4-5 to add another 15" cluster. **NOTE: See measurement chart for all duplet lengths & colors.**



6. Add 14 more clusters per the measurement chart, alternating colored clusters as shown.

7. Repeat Steps 1-6 to create the opposite side of the Heart Arch.

8. To make a weight, double stuff an 11" White balloon and fill with sand or water. Repeat to make another weight. Tie the sand weights to the bottom 646Q clusters on both sides of the arch.



9. Make two 5-balloon clusters with air-filled 11" White balloons inflated to 9" (23cm). Push one cluster between the 646Qs on one end of the arch, rotating it at a 45-degree angle to the 646Q clusters. Repeat on the other side of the arch.

10. Tie together the two 646Q 4-balloon clusters at the center of the Heart's "point" using the uninflated 646Q tips.

11. Inflate a White 260Q to 9", and tie. Also tie a knot at the opposite end of the 9" bubble. Tie the 260Q between the second clusters on both sides of the Heart's center to provide extra support. Trim any remaining 260Q balloon.

12. Air inflate the 5" White balloons to 4" (10cm) and make a 4-balloon cluster. Wrap the 4" cluster around the first two 646Q clusters on either side of the arch at the Heart's center.

13. Air inflate a White 646Q to about 33" (84cm) and tie. To finish the center of the Heart, tie the 646Q across the bottom of the "point," then trim any excess 646Q balloon.

14. For extra rigidity at the base of the Heart, air inflate a White 11" balloon to fill the gap between the bottom clusters of 646Qs. Tie the 11" balloon and wedge into the space. Repeat for the opposite side.

TIPS

- Keep the garland of 646Q clusters packed tightly together, by tying knots close to the inflated parts of the balloons, for best results.

- For accurate inflation, use the following settings on Conwin's Precision Air Inflator to size the 646Q balloons:

1.0 second = 11"
1.5 seconds = 15"
1.9 seconds = 19"
2.2 seconds = 21"
2.5 seconds = 22.5"
3.0 seconds = 33"

- Longer arches may require additional support such as monofilament (fishing) line rigging from above, or heavier base weights.

- Tie knots on 646Qs tightly against inflated portion of balloons to allow for extra tying length.

The 646Q Woven Heart Arch is featured in the Jan/Feb/Mar 2003 issue of **Balloon Images** magazine and e-zine. To see if you qualify for a free subscription, go to "**Balloon Images E-zine**" on Qualatex.com, or call Pioneer® Balloon Company at 1-800-999-5644 (press 7) or 316-685-2266.

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