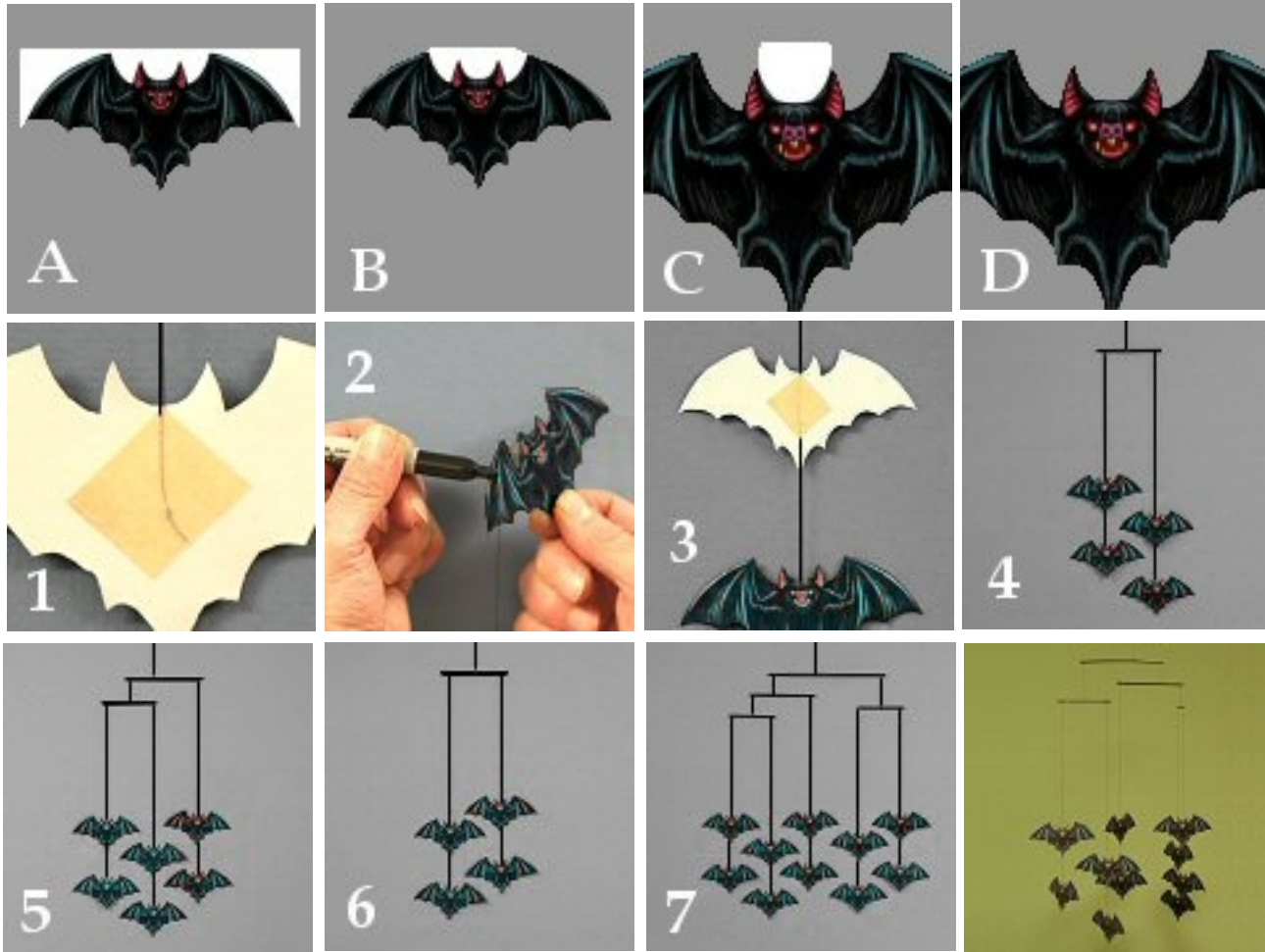


# THE BAT MOBILE Assembly Instructions Page 1.



**WHAT YOU'LL NEED:** scissors, tape, Elmer's glue (or a glue stick), thread, a ruler, a black marker and three bamboo skewers (kabob sticks). The bamboo skewers should be available at your local grocery store. They usually come in a bag of 100, and are a little under ten inches long. If you can't get skewers, print out the Optional Hanging Sticks and use them instead.

**FOLDING TIP:** It's helpful to 'score' any fold lines before folding. You can use an old ink pen, a knitting needle, the end of a paper clip, or any metal object that will crease the paper without tearing it. Scoring will help you fold much more precisely.

**ASSEMBLY:** We'll begin by cutting the skewers to the lengths needed. Cut the first skewer NINE inches long, cut a second skewer FIVE inches long, and then cut two THREE AND A HALF inch sections from the third skewer. Use paint or the black marker to darken all four skewer pieces. We'll refer to them as 'sticks'.

Next, cut out all twenty bats. To save time, you can cut them out two at a time. Here's how: Score and fold along the green center line, scoring the entire page (this should be done as precisely as possible). Fold DOWNWARD along the green line. Then cut along the black lines to separate the bats from the page (this doesn't need to be done very precisely as long as the fold was precise). Now carefully cut out the bats as follows: cut away the lower white area as shown in Figure A, cut away the side areas as shown in Figure B, cut away the white area beside both ears as shown in Figure C and then cut away the remaining white area as shown in Figure D. Trim the opposite side if needed. Set these two bats aside (but keep them together). Repeat this process for all 10 pairs of bats.

Now we'll make five pairs of two-sided bats. Begin by cutting five lengths of thread approximately 18 inches long. Tie a knot in the end of a length of thread and tape it to the unprinted side of a bat, being sure the thread extends from the center of the bat's head as shown in Figure 1. Glue the matching bat (the one that was cut out at the same time) to the unprinted side of the bat, forming a single two-sided bat. Trim if needed and then use the black marker to darken the paper edges as shown in Figure 2. Repeat this process to make five two-sided bats.

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For each of the five two-sided bats, place a second bat above the first, positioning the second bat's tail TWO inches above the first bat's head as shown in Figure 3. Again, be sure the thread extends from the center of the top bat's head. Also be sure the lower end of the thread extends from the tip of the top bat's tail. Glue the matching bat to the unprinted side of the second bat. Trim if needed and darken the edges with a marker. Repeat this procedure for the remaining bats so you have five pairs. Each pair should have about a foot of thread extending from the top bat.

It's time to begin hanging the bats from the sticks! The bat's threads should always be tied about a quarter of an inch from the tips of the sticks. Start by selecting one of the THREE AND A HALF inch sticks. Tie a pair of bats EIGHT inches below the stick on one end, and then tie a second pair of bats TEN inches below the stick on the other end, as shown in Figure 4. Place a small drop of glue on each knot to finish the connection. Cut a foot long length of thread and tie it to the center of the stick. Slide the thread back and forth carefully until the stick hangs level (as shown in Figure 4) and then place a drop of glue on the knot to hold the string in position.

Now select the FIVE inch stick. Tie the THREE AND A HALF inch stick (with the two pairs of bats) so it hangs ONE AND A HALF inches below one end of the FIVE inch stick, as shown in Figure 5. Tie a pair of bats NINE AND A HALF inches below the other end of the FIVE inch stick, as shown in Figure 5. Place a small drop of glue on each knot. Cut a foot long length of thread and tie it to the FIVE inch stick (roughly one and three quarters of an inch from the end with the second stick attached). Slide the thread back and forth carefully until the stick hangs level (as shown in Figure 5) and then place a drop of glue on the knot to hold the string in position.

Select the remaining THREE AND A HALF inch stick and attach a pair of bats TEN AND A HALF inches below one end, as shown in Figure 6. Attach the remaining pair of bats EIGHT AND A HALF inches below the other end of the stick, as shown in Figure 6. Place a small drop of glue on each knot. Cut a foot long length of thread and tie it to the center of the stick. Slide the thread back and forth carefully until the stick hangs level (as shown in Figure 6) and then place a drop of glue on the knot to hold the string in position.

Select the NINE inch stick. Tie the FIVE inch stick so it hangs ONE AND A HALF inches below one end of the NINE inch stick, as shown in Figure 7. Then tie the remaining THREE AND A HALF INCH stick so it hangs TWO AND A HALF inches below the other end of the NINE inch stick as shown in Figure 7. Place a small drop of glue on each knot. Cut a piece of thread several feet long and tie it to the NINE inch stick (roughly three and three quarters of an inch from the end with two sticks attached). Slide the thread back and forth carefully until the stick hangs level (as shown in Figure 7) and then place a drop of glue on the knot to hold the string in position.

Your bat mobile is now finished! Hang it wherever you wish and enjoy having your own personal flock of bats!