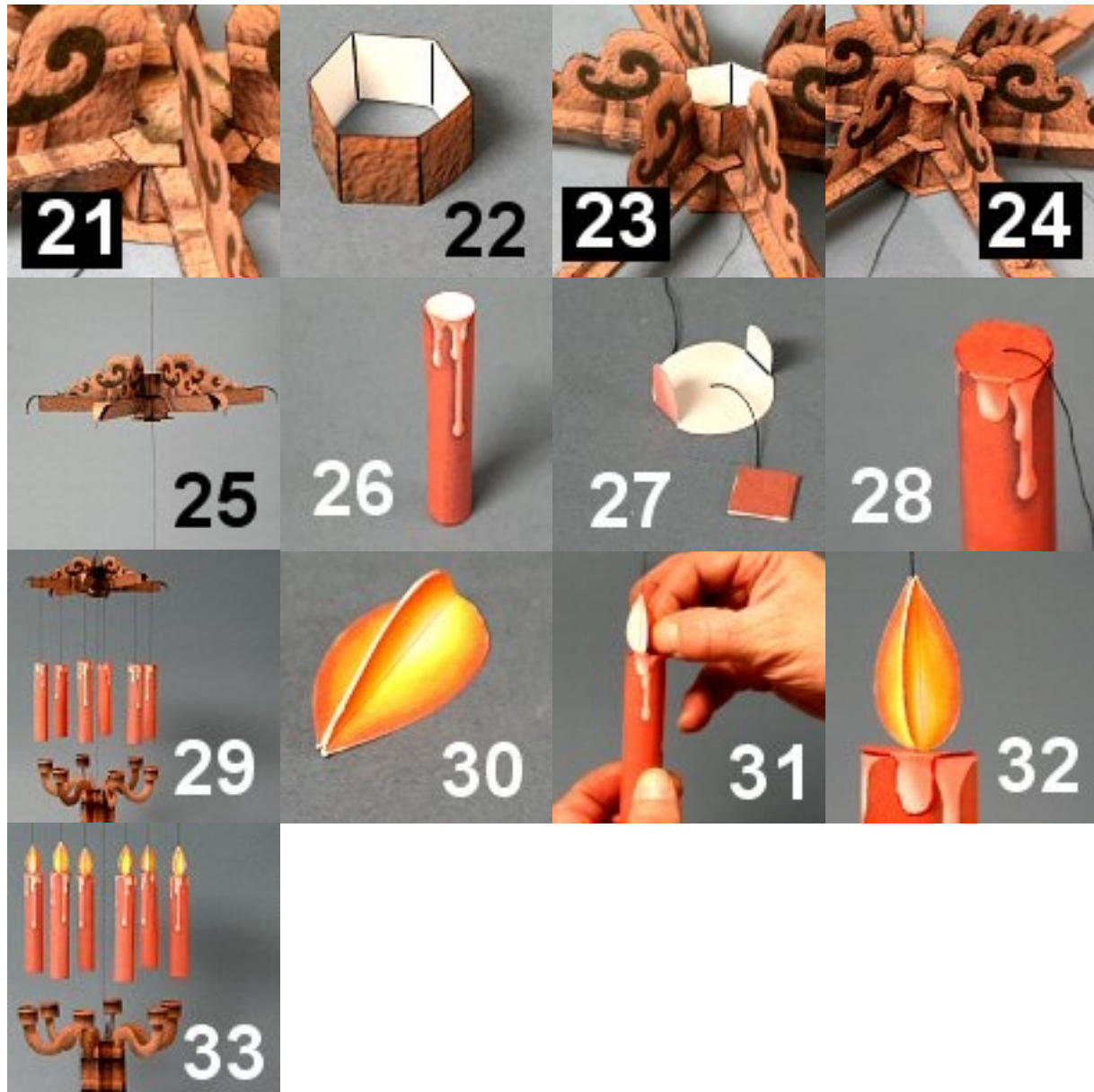


THE FLOATING CANDELABRA – ASSEMBLY INSTRUCTIONS page 1.



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WHAT YOU'LL NEED: Scissors, Elmer's glue (or a glue stick), a toothpick, a ruler, a needle and a few yards of thread, a pencil or pen that's smooth and round (with no pocket clip or ridges) and a black marker.

(This project should be printed on heavy card stock.)

FOLDING TIP: It's helpful to 'score' the 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 helps you fold more precisely and also makes the project much faster to assemble.

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ASSEMBLY:

The candelabra will look much nicer if the white paper edges are darkened with a marker. Place the marker's tip sideways as shown in Figure 1 to darken any white edges on the candelabra pieces after they're trimmed. Trim the black candle edges with a black marker. Trim the red candle edges with a red marker or leave untrimmed. White candles can be left untrimmed. Candle flame edges can be left white or trimmed with a red marker.

We'll begin by assembling the candelabra body. Cut out the LOWER HUB on Parts Page 1. Fold DOWNWARD between all seven panels. Glue the end metal panel directly over the opposite blank panel, forming a six sided hub as shown in Figure 2.

Next, Cut we'll cut out the six LOWER ARMS and the six SCROLLWORK pieces on Parts Pages 2 – 7. For these, begin by cutting around the outside edges of the entire piece, following the outer black lines. DO NOT separate the two sides. Fold the six tabs UPWARD. Fold very precisely along the center line and then glue the two halves together (being careful not to glue the tabs together). Now carefully cut out the LOWER ARM and the SCROLLWORK piece. Trim as needed. Each LOWER ARM should resemble Figure 3. Each SCROLLWORK piece should resemble Figure 4. Set the six finished SCROLLWORK pieces aside, we'll use them later.

Glue all six LOWER ARM pieces to the LOWER HUB as shown in Figure 5. It's OK to collapse the hub while gluing the lower arms in place.

Now cut out the six CANDLE HOLDER pieces on Parts Page 8. For each CANDLE HOLDER, fold DOWNWARD along the center line and then glue the two sides together. Curve the CANDLE HOLDER around the pencil and then glue the white part of the piece directly over the opposite side to form a ring, as shown in Figure 6.

Cut out the six HOLDER BRACE pieces on Parts Page 8. For each HOLDER BRACE, fold the two outer panels UPWARD and then fold DOWNWARD along the center line and glue the two center panels together. Trim if needed. The HOLDER BRACE should now resemble Figure 7.

Position each CANDLE HOLDER so the rusty ring is downward, and then place a HOLDER BRACE inside each CANDLE HOLDER, as shown in Figure 8. The HOLDER BRACE should be level with the edge of the CANDLE HOLDER. Glue the unprinted side of the HOLDER BRACE tabs to the inside of the CANDLE HOLDER.

Turn each CANDLE HOLDER upright (rusty ring at the top) and position it's HOLDER BRACE over the two small tabs on the top of the UPPER ARM pieces, as shown in Figure 9. Glue the UPPER ARM tabs to the HOLDER BRACES.

Now it's time to add thread to the candelabra so we can hang it up.

Cut the toothpick into two pieces, each about a quarter of an inch long. Use the marker to darken both toothpick pieces. Tie thread securely to one of the toothpick pieces, as shown in Figure 10. Measure about three and a half feet from the toothpick and cut the thread. (The finished mobile will hang about two feet from an eight foot ceiling.) We'll refer to this thread as the 'main thread'.

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Cut out SPACER A on Parts Page 1, cutting along the outer black lines (do not separate the two sides). Fold DOWNWARD along the center line and glue the two sides together. Cut out the spacer and trim as needed. Cut away the six white lines, cutting first along one side of the line and then the other to make a small notch. Run the needle and main thread through the center of the spacer. Then run the needle and main thread through the bottom of the LOWER HUB and place the spacer against the bottom end of the hub, as shown in Figure 11. Begin by positioning the spacer about half way down and then gently press it into place. Pull the main string until the toothpick rests against the spacer.

Cut out SPACER B on Parts Page 1 and assemble it in the same manner as SPACER A. Run the needle and main thread through SPACER B and then position SPACER B on the top of the LOWER HUB as shown in Figure 12. Your candelabra should now hang fairly level when suspended by the main thread.

Next, we'll assemble the top of the mobile and then we'll add candles.

Cut out UPPER HUB A on Parts Page 1. Fold DOWNWARD along the center line and glue the two panels together. Trim as needed. Fold DOWNWARD between all seven panels and then glue the unprinted area directly over the blank area on the opposite side, forming a hub like the one shown in Figure 13.

Cut out the six UPPER ARM pieces on Parts pages 9 and 10. For each UPPER ARM, fold the three black panels DOWNWARD and glue them to the back of the panels they attach to. Fold the two smaller metal tabs DOWNWARD and then fold DOWNWARD between all four larger panels. Glue the outer large metal panel directly over the opposite blank panel to form a triangular beam, as shown in Figure 14. (You can probably slide the pencil into the arm piece so there's something to press against when gluing.)

Slide the arm's two tabs through UPPER HUB A, with the inside tab under the inside of the hub, as shown in Figure 15. Then fold the outer tab down and glue it to the outside of the hub, as shown in Figure 16. Fold the arm over the outer tab we just glued, but don't glue the arm anywhere (It's connected securely and will hang in the proper position once spacers are added). Repeat this process for all six UPPER ARM pieces, forming a piece like the one shown in Figure 17.

Glue the six SCROLLWORK pieces to the tops of the UPPER ARM pieces. The inner edge of each SCROLLWORK piece should line up with the inner edge of each arm, as shown in Figure 18.

To finish the six UPPER ARM pieces, cut out the six CLAW pieces on Parts Pages 9 and 10. For each CLAW, fold DOWNWARD along the center line and glue the two sides together. Trim as needed. Fold the triangular panel (but not the square panel) around the pencil and then flatten it back out so it has a slight curve. Position the square panel on the end of the upper arm piece as shown in Figure 19, and glue in place.

Now we'll add the top piece to the main thread.

Mark a spot on the main thread 10 inches up from the top of the LOWER HUB. Tie the main thread around the second toothpick piece at this spot, as shown in Figure 20.

Cut out SPACER C on Parts Page 1. It should be assembled in the same manner as SPACER A except that there are no notches to cut out. Run the needle and main thread through SPACER C and slide SPACER C along the main thread until it rests against the second toothpick piece.

Run the needle and main thread up through the bottom of the candelabra top piece. Slide the top piece along the thread until it rests against SPACER C (but do NOT glue the top piece to the spacer).

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Cut out and assemble SPACER D in the same manner as SPACER A. Run the needle and main thread through SPACER D and slide SPACER D along the thread until it rests against the top of UPPER HUB A as shown in Figure 21. (As before, place the spacer in position about half way down the scrollwork edges and then gently push it the rest of the way.)

Cut out UPPER HUB B on Parts Page 1. Fold DOWNWARD between all seven panels. Glue the outer metal panel directly over the opposite blank panel to form a piece like the one shown in Figure 22. Run the needle and main thread through UPPER HUB B and then slide UPPER HUB B along the thread until it rests on SPACER D, as shown in Figure 23.

Cut out and assemble SPACER E in the same manner as SPACER A. Run the needle and main thread through SPACER E and then slide SPACER E along the thread until it rests against UPPER HUB B, as shown in Figure 24. The top piece should now hang fairly level, as shown in Figure 25.

Time to add the candles.

Choose either white, red or black candles and print out the appropriate three pages. Cut out the six CANDLE pieces on Candle Parts Pages 1 and 2. For each CANDLE, fold the bottom panel DOWNWARD and glue it to the back of the piece. Wrap the CANDLE around the pencil to curve the paper. Try to avoid creasing the paper. After the paper is curved, you can roll the CANDLE between your palms to smooth out the surface. Place glue on the back of the candle's left side and then glue that side directly over the opposite darker panel. This may seem awkward at first but should become easier with practice. You can place the pencil inside the CANDLE so there's something to press against while gluing. The CANDLE should now form a tube as shown in Figure 26.

Now cut out the six CANDLE TOP pieces on Candle Parts Pages 1 and 2. For each CANDLE TOP, fold the two side tabs DOWNWARD. Next, cut out the six CANDLE TAB pieces on Candle Parts Pages 1 and 2. Each CANDLE TAB should be folded DOWNWARD along the center line.

For each of the six candles, Cut a length of thread about a foot long. For each piece of thread, tie a knot in one end and then place the knot in the center of one of the panels on a CANDLE TAB. Glue the two CANDLE TAB panels together, sandwiching the knot in between the two sides. The tab should now be firmly attached to the string. Use the needle to punch a hole in the center of a CANDLE TOP. Then run the need and candle thread through the unprinted side of the CANDLE TOP as shown in Figure 27. Glue the two CANDLE TOP tabs to the sides of the CANDLE as shown in Figure 28. The CANDLE TAB should prevent the candle from falling off the string when suspended.

Tie each candle string to an UPPER ARM so the top of the candle hangs 4 inches below the arm. The string should go between the SCROLLWORK and CLAW pieces on the UPPER ARM. The six finished candles should hang as shown in Figure 29. If they hang a bit crooked over the candelabra, don't panic. You can slide SPACER C towards whichever side is too high. This should help level the candles and the weight of the top piece should hold the spacer where you need it.

Next, cut out the FLAME pieces on Candle Parts Page 3. Each candle will use four flame pieces. Begin by folding all of the FLAME pieces UPWARD along the center line. For each candle, glue two FLAME pieces together as shown in Figure 30, gluing one half of each piece. Then fold these two pieces together and add a third FLAME piece in the same manner. Trim as needed. Now position the flame with the folded edges against the candle thread as shown in Figure 31. Glue the fourth FLAME piece in place over the thread as shown in Figure 32. Trim if needed, but be very careful not to cut the thread. When all six candles have flames added, the model should resemble Figure 33.

Slide SPACER C sideways again if needed to level the candles. And that's everything! You're floating candelabra is now complete.