



## DIY ADIRONDACK CHAIRS

### BUILD PLAN

Here are the tools, materials, cut list, and build steps you'll need to construct your own family-friendly chairs.



Adirondack Chairs



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## TOOLS

Table saw  
Circular saw  
Miter saw  
Jigsaw  
Hole saw  
Drill  
Countersink drill bits  
Tape measure  
Sanding block  
220-grit sandpaper  
120-grit sandpaper  
Wood glue

## MATERIALS

### Adult Adirondack Chair

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(3) 2 in. x 4 in. x 96 in. boards  
(4) 1 in. x 4 in. x 96 in. boards  
(1) 1 in. x 6 in. x 96 in. board  
2 ½ in. exterior screws  
1 ¼ in. exterior screws  
Wood stain  
Clear coat finish  
Exterior spar varnish

### Child Adirondack Chair

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(4) 1 in. x 4 in. x 96 in. boards  
2 ½ in. exterior screws  
1 ¼ in. exterior screws  
Wood stain  
Clear coat finish  
Exterior spar varnish



## CUT LIST

### Adult Adirondack Chair

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#### Sides of Chair

- A - (2) 1 ½ in. x 3 ½ in. x 21 ⅝ in. front legs
- B - (2) 1 ½ in. x 3 ½ in. x 28 ⅛ in. arm supports  
(26° miter cut on one end)
- C - (2) ¾ in. x 3 ½ in. x 37 ⅛ in. bottom legs  
(20° and 70° miter cut on both ends)

#### Back Frame

- D - (2) 1 ½ in. x 3 ½ in. x 20 ¾ in. side back supports  
(26° miter cut on one end, 6° miter cut on the other end)
- E - (1) 1 ½ in. x 3 ½ in. x 19 ¼ in. middle back support
- F - (1) 1 ½ in. x 3 ½ in. x 19 ¼ in. bottom back support

#### Bottom Frame and Slats

- G - (1) ¾ in. x 3 ½ in. x 25 ¼ in. front trim
- H - (1) ¾ in. x 3 ½ in. x 17 ⅞ in. bottom middle support  
(6° miter on one end, 20° and 70° on other)
- I - (5) ¾ in. x 3 ½ in. x 25 ¼ in. seat slats

#### Back Slats

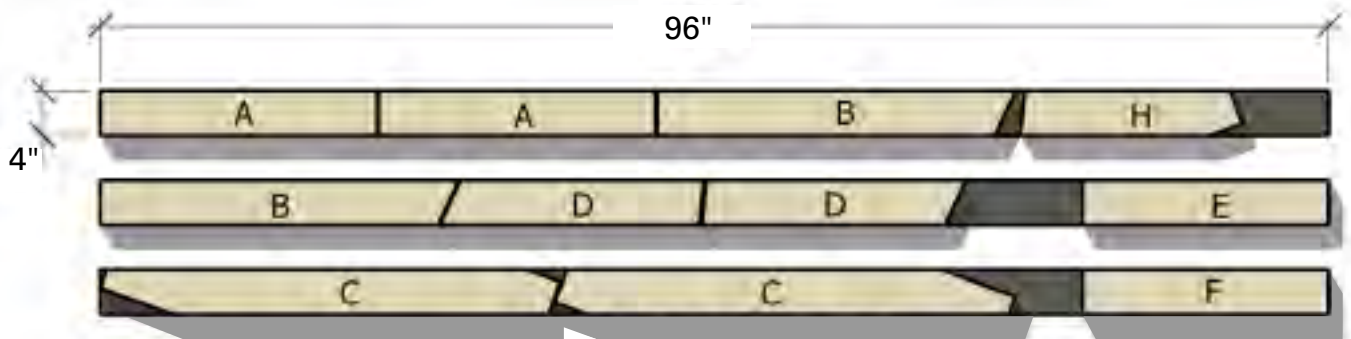
- J - (6) ¾ in. x 3 ½ in. x 34 ½ in. back slats  
(length before back arch is cut—see page 13)
- K - (1) ¾ in. x 3 ½ in. x 22 ¼ in. top back support

#### Armrests and Cupholders

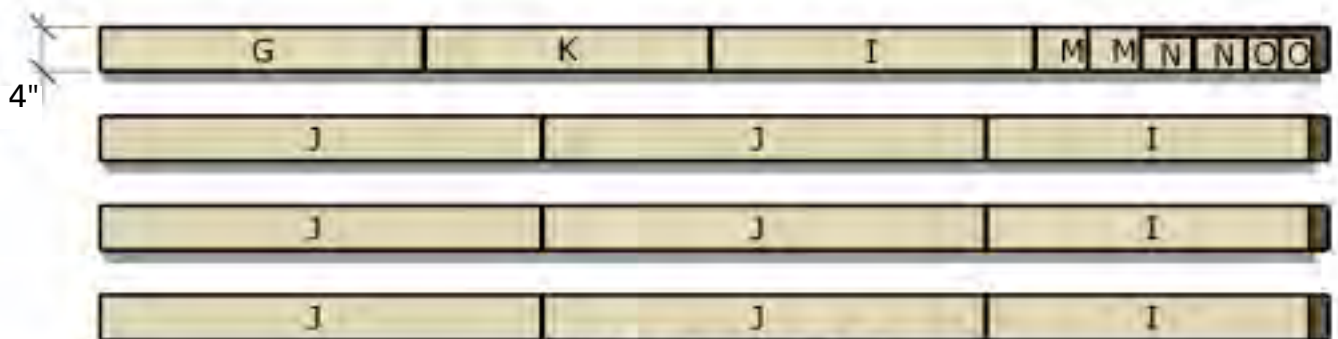
- L - (2) ¾ in. x 3 ½ in. x 28 ⅞ in. armrests  
(cupholder & angled arm dimensions on page 6)
- M - (2) ¾ in. x 3 ½ in. x 4 in. cupholder bottom
- N - (2) ¾ in. x 2 ¾ in. x 4 in. cupholder back
- O - (2) ¾ in. x 2 ¾ in. x 2 ½ in. cupholder front

**CUT LIST**

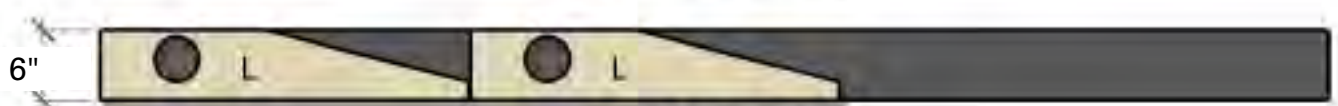
Suggested Cuts - Adult Adirondack Chair



**2X4 BOARDS**



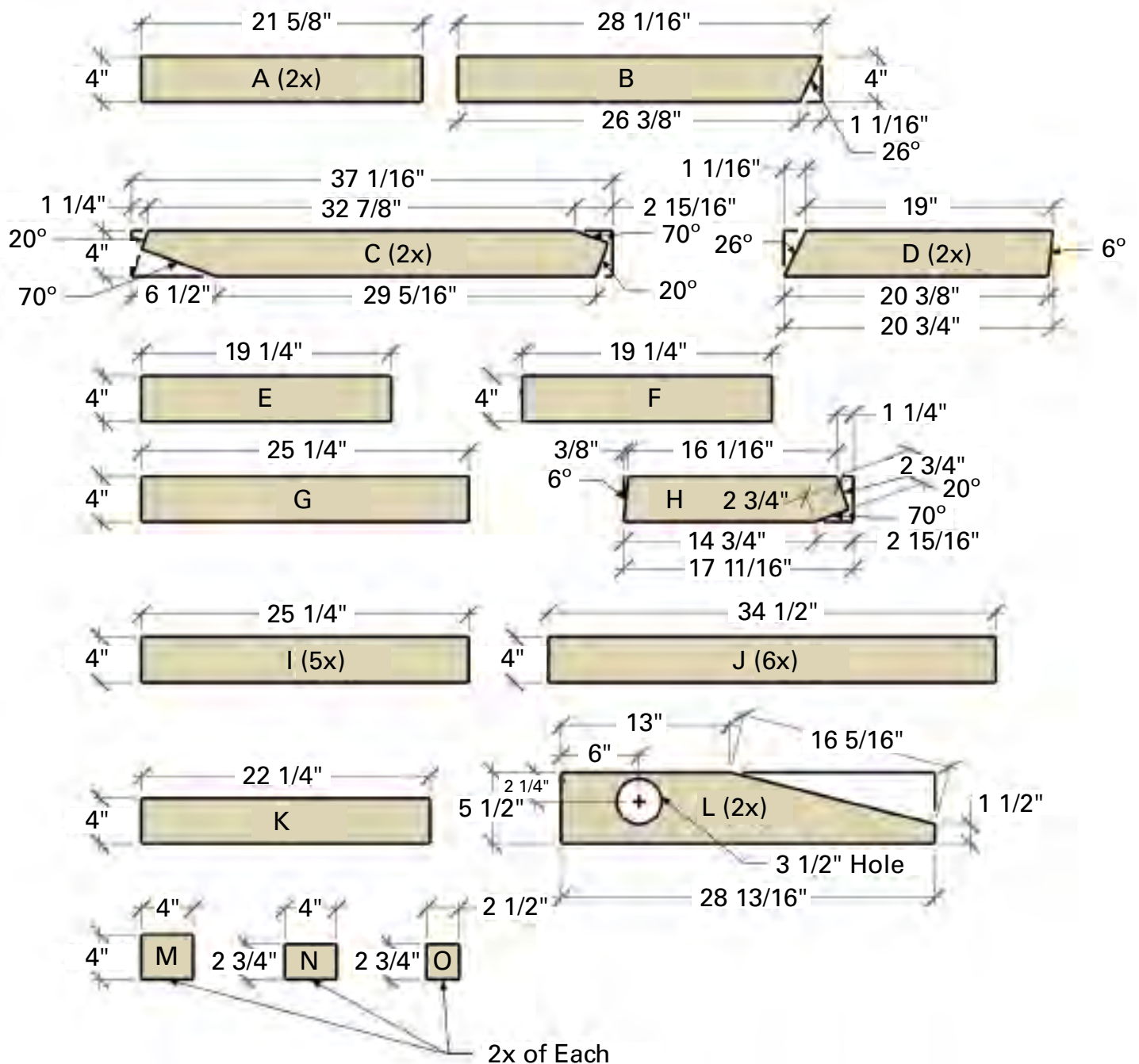
**1X4 BOARDS**



**1X6 BOARDS**

**CUT LIST**

Cut Details - Adult Adirondack Chair





## CUT LIST

### Child Adirondack Chair

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#### Sides of Chair

- A - (2)  $\frac{3}{4}$  in. x  $3\frac{1}{2}$  in. x  $11\frac{1}{2}$  in. front legs
- B - (2)  $\frac{3}{4}$  in. x  $3\frac{1}{2}$  in. x  $18\frac{7}{8}$  in. bottom legs (20° and 70° miter on both ends)
- C - (2)  $\frac{3}{4}$  in. x  $3\frac{1}{2}$  in. x  $18\frac{1}{4}$  in. armrest (cut angle off with circular saw—see page 9)
- D - (2)  $\frac{3}{4}$  in. x  $1\frac{1}{2}$  in. x  $2\frac{1}{2}$  in. armrest supports (45° miter on one end)

#### Bottom Frame

- E - (1)  $\frac{3}{4}$  in. x  $3\frac{1}{2}$  in. x  $16\frac{1}{4}$  in. front trim
- F - (1)  $\frac{3}{4}$  in. x  $3\frac{1}{2}$  in. x  $14\frac{3}{4}$  in. bottom frame

#### Back Support

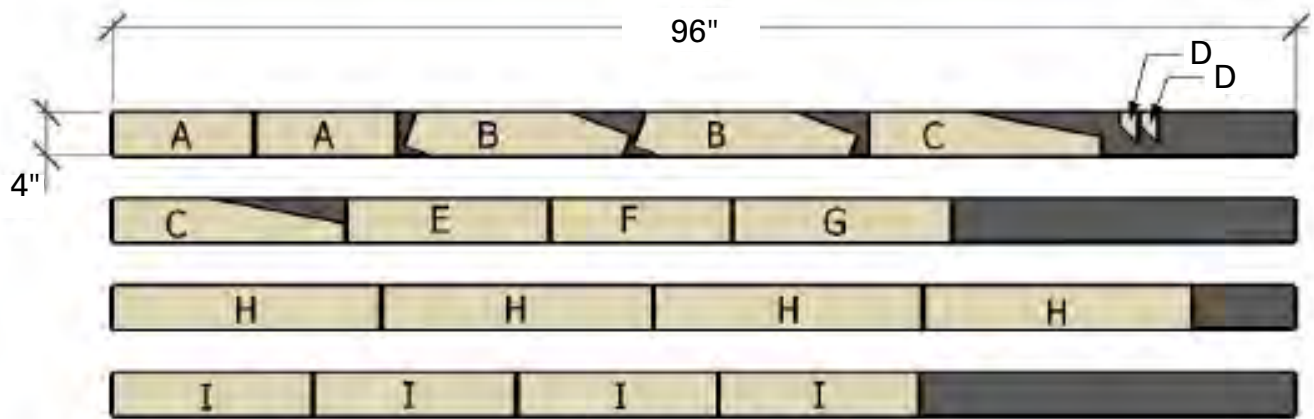
- G - (1)  $\frac{3}{4}$  in. x  $3\frac{1}{2}$  in. x  $17\frac{3}{4}$  in. middle back support

#### Back and Bottom Slats

- H - (4)  $\frac{3}{4}$  in. x  $3\frac{1}{2}$  in. x  $21\frac{13}{16}$  in. back slats
- I - (3)  $\frac{3}{4}$  in. x  $3\frac{1}{2}$  in. x  $16\frac{1}{4}$  in. bottom slats
- O - (2)  $\frac{3}{4}$  in. x  $2\frac{3}{4}$  in. x  $2\frac{1}{2}$  in. cupholder front

## CUT LIST

Suggested Cuts - Child Adirondack Chair

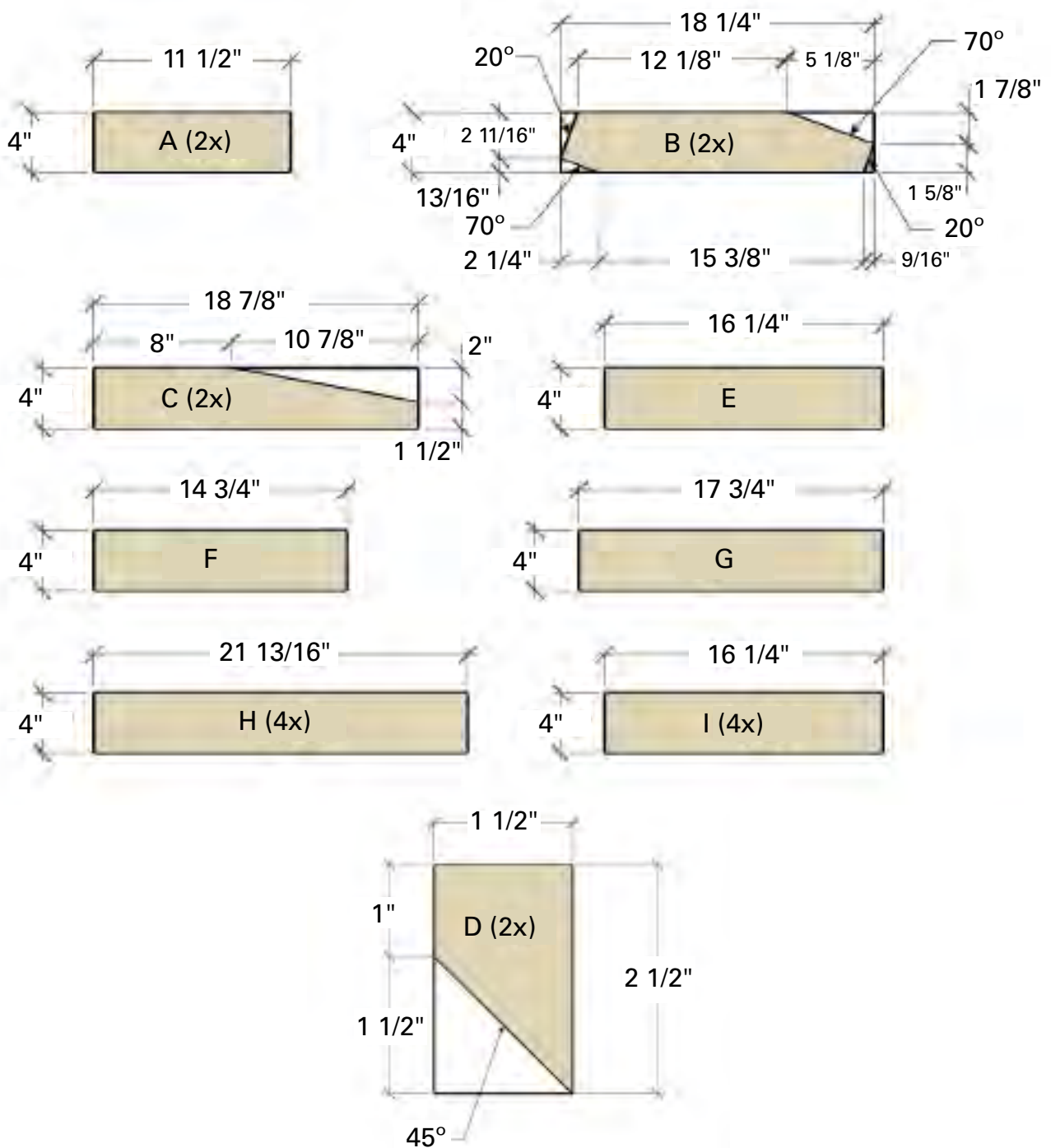


**1X4 BOARDS**



**CUT LIST**

Cut Details - Child Adirondack Chair



## ADULT ADIRONDACK CHAIR BUILD STEPS

### 1. Parts Preparation

- Cut all parts as shown above.
- Pre-sand all surfaces with 120- and 220-grit sandpaper, with the grain of the wood.
- Predrill and countersink holes.
- Apply wood glue before adjoining boards to ensure build strength.

- Attach the two 2 in. x 4 in. x 28  $\frac{1}{16}$  in. arm supports to the top of the two 2 in. x 4 in. x 21  $\frac{5}{8}$  in. front legs at a 90° angle, making sure the edges and corners are squared and flush. Use four 2  $\frac{1}{2}$  in. screws for each side of the chair to secure the pieces together.

Step 1a



Step 1c



Step 2



3. Attach 2 in. x 4 in. x 37 1/16 in. bottom legs with four 2 1/2 in. screws. Ensure the top is 5 3/8 in. below the horizontal arm support, and offset 3/4 in. from the edge of the front legs.
4. Attach the 2 in. x 4 in. x 19 1/4 in. middle back support and 2 in. x 4 in. x 19 1/4 in. bottom back support to the two 2 in. x 4 in. x 20 3/4 in. side back supports. Make sure the bottom back support is offset by 2 1/4 in. from the bottom, and the middle back support runs parallel with the 6° mitered end of the side back supports. Use 2 1/2 in. screws to secure all four pieces together.
5. Attach the 1 in. x 4 in. x 25 1/4 in. front trim to the bottom legs, ensuring it is square and flush with the top and front of the bottom legs. Secure with six 2 1/2 in. screws.

Step 3



Step 4



Step 5



6. Attach the assembled back support frame to the assembled sides, aligning the angles on the top of the two side back supports with the side frame. Make sure the bottom of the back support frame is offset from the front of the bottom legs by  $16 \frac{1}{16}$  in. Secure all pieces together with  $2 \frac{1}{2}$  in. screws.
7. Install and attach the 1 in. x 4 in. x  $17 \frac{11}{16}$  in. bottom middle support. Make sure the back of the support overlaps the bottom back support by  $1 \frac{1}{4}$  in. and is perfectly centered on the build. Secure to the front trim with three  $2 \frac{1}{2}$  in. screws and the bottom middle support with two  $2 \frac{1}{2}$  in. screws.
8. Take the five 1 in. x 4 in. x  $25 \frac{1}{4}$  in. seat slats and lay them across the bottom legs. Make sure the frontmost slat is even with the front trim. Space the other four slats  $\frac{1}{4}$  in. apart from there. Secure to the bottom middle support and bottom legs with thirty  $2 \frac{1}{2}$  in. screws, using twenty screws on the ends and ten on the center.

Step 6



Step 7



Step 8



9. Attach the six 1 in. x 4 in. x 34 ½ in. back slats to the back frame, spacing the slats ¼ in. apart. Locate the center of the arch (the middle of the six slats) 11 ⅛ in. from the edge, level with the armrest. Secure to back frame with 2 ½ in. screws.
10. Mark a 19 ⅞ in. radius curve along the top of the back slats OR print and trace the adult Adirondack chair curve template from Appendix A. Cut with jigsaw.
11. Attach the ¾ in. x 3 ½ in. x 22 ¼ in. top back support to the back of the slats, located 5 ⅞ in. below the topmost point of the slats and 9 ⅞ in. above the top of the back frame. Secure using 2 ½ in. screws.

Step 9



Step 10



Step 11



12. Drill out drink holes in two 1 in. x 4 in. x 28 <sup>13</sup>/<sub>16</sub> in. armrest boards according to Cut Detail chart above (see page 6).
13. Attach two armrests to arm supports with 2 ½ in. screws, making sure the ends of the armrests line up with the back of the back frame, giving you a <sup>3</sup>/<sub>4</sub> in. overhang at the front.
14. Take one 1 in. x 4 in. x 4 in. cupholder bottom piece, <sup>3</sup>/<sub>4</sub> in. x 2 <sup>3</sup>/<sub>4</sub> in. x 4 in. cupholder back piece, and <sup>3</sup>/<sub>4</sub> in. x 2 <sup>3</sup>/<sub>4</sub> in. x 2 ½ in. cupholder front piece. Stand the bottom piece on end and lay the back piece on top of it, forming a 90° angle, making sure the edges and corners are even and flush. Secure the pieces together using 1 ¼ in. screws.

Step 13

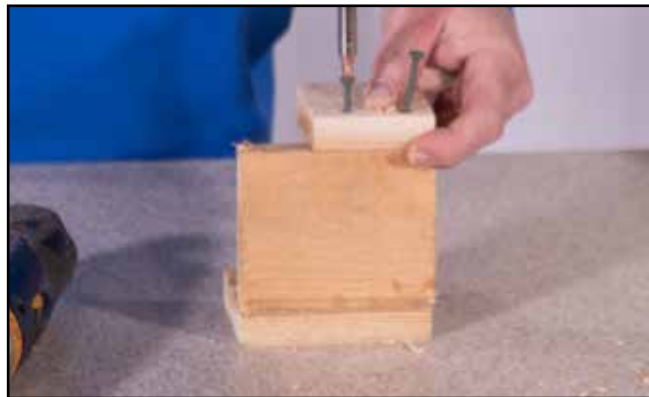


Step 14

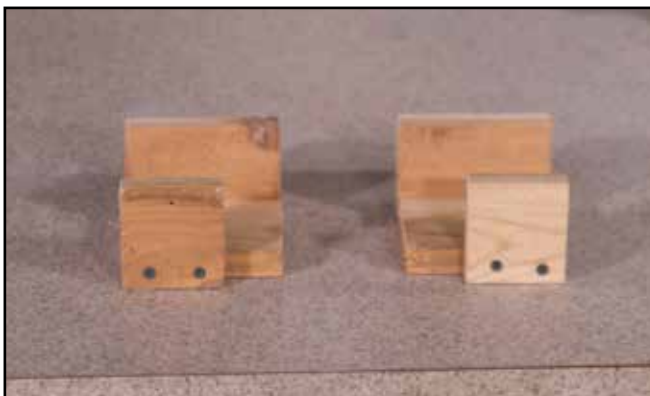


15. Flip the assembly over, laying the back piece flush on the ground. Take the front piece and lay it on top of the open end of the bottom piece, forming a 90° angle, making sure it is even and flush with one of the corners. Secure the pieces together using 1 ¼ in. screws.
16. Repeat steps 14 and 15 for the other cupholder, but mirrored so that the cupholder front piece is flush and even with the opposite edge of the bottom piece.
17. Attach the two assembled cupholders to the chair, securing through each arm support and armrest using 1 ¼ in. screws.

Step 15



Step 16



Step 17





## DIY ADIRONDACK CHAIRS

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### BUILD PLAN

18. Apply wood conditioner and stain and up to three coats of exterior spar varnish to finish.





## CHILD ADIRONDACK CHAIR BUILD STEPS

### 1. Parts Preparation

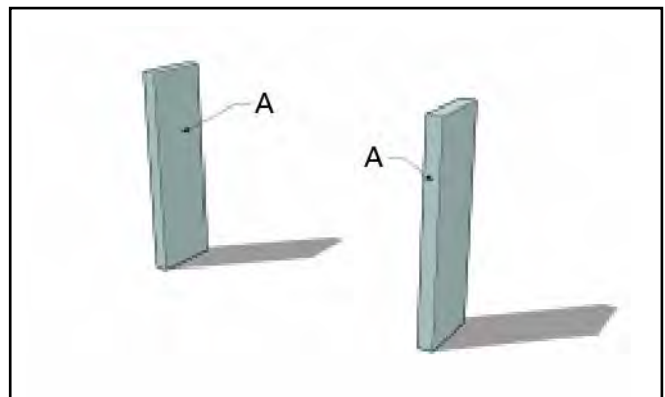
- a. Cut all parts as shown above.
- b. Pre-sand all surfaces with 120- and 220-grit sandpaper, with the grain of the wood.
- c. Pre-drill and countersink holes.
- d. Apply wood glue before adjoining boards to ensure build strength.

### 2. Take the two 1 in. x 4 in. x 11 ½ in. front legs and stand on end.

Step 1a

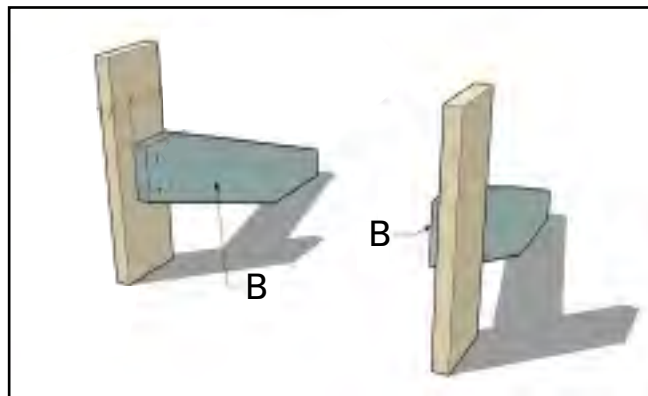


Step 2

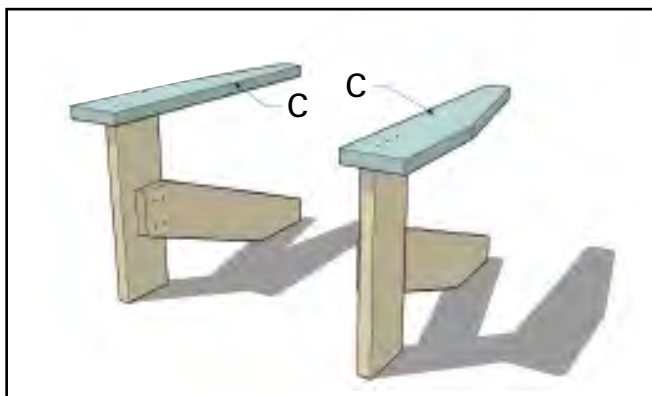


3. Attach the two 1 in. x 4 in. x 18  $\frac{7}{8}$  in. bottom legs to the front legs with four 1  $\frac{1}{4}$  in. screws. Ensure the bottom legs are 7 in. from the bottom of the front legs and offset by 1  $\frac{3}{16}$  in. from the front edge.
4. Attach the two 1 in. x 4 in. x 18  $\frac{1}{4}$  in. armrests to the front legs with three 2 in. screws on either side. Make sure the front and inside edges of the armrests are square and offset from the front and inside of the front legs by  $\frac{3}{4}$  in.
5. Attach the two  $\frac{3}{4}$  in. x 1  $\frac{1}{2}$  in. x 2  $\frac{1}{2}$  in. armrest supports on the outside of both front legs. Make sure they are centered on both legs and flush with the arm rests. Secure with two 1  $\frac{1}{4}$  in. screws through the inside of the leg and two 1  $\frac{1}{4}$  in. screws through the armrests.

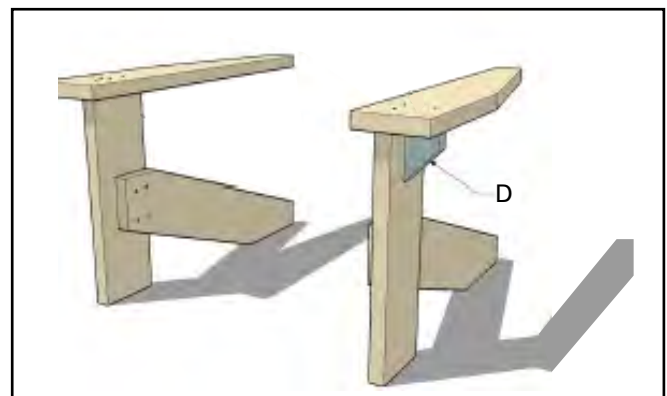
Step 3



Step 4

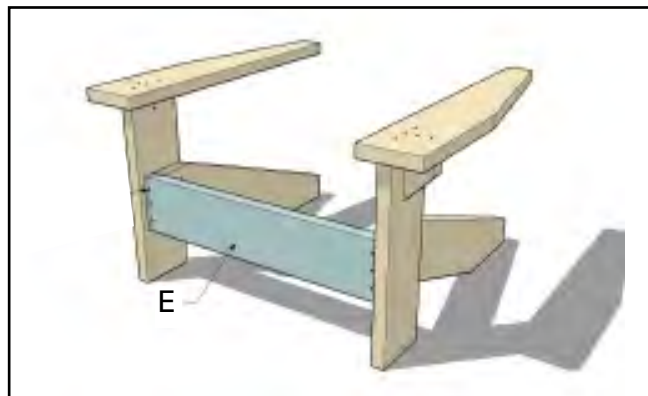


Step 5

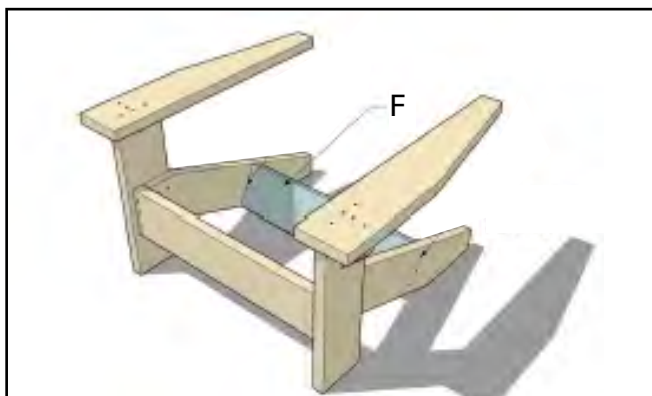


6. Take the 1 in. x 4 in. x 16 ¼ in. front trim and attach it to the front of the bottom legs, making sure the top of the trim and bottom legs are even and flush. Secure using three 2 in. screws on both sides.
7. Attach the 1 in. x 4 in. x 14 ¾ in. bottom frame to the bottom legs at an 84° angle and spaced 8 in. from the angled corners of the bottom legs. Secure using three 2 in. screws on each side.
8. Take the 1 in. x 4 in. x 17 ¾ in. middle back support and place it flush under the armrests, ensuring the edges and corner are lined up. Secure using three 1 ¼ in. screws on both sides.

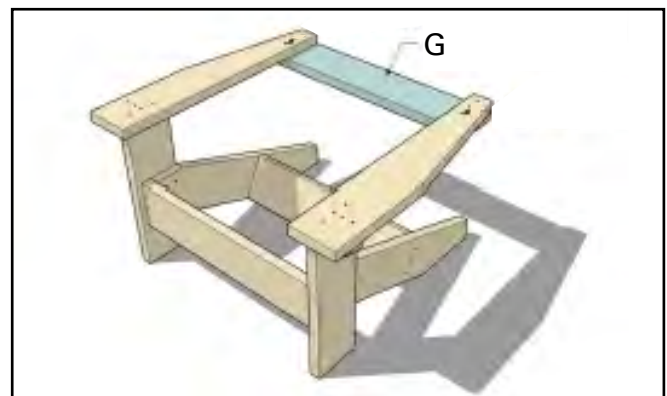
Step 6



Step 7

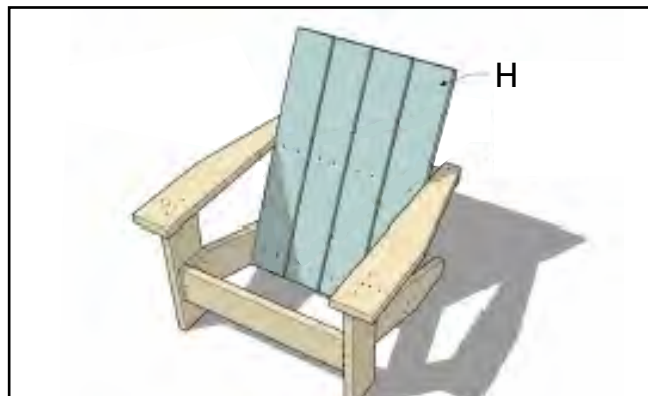


Step 8

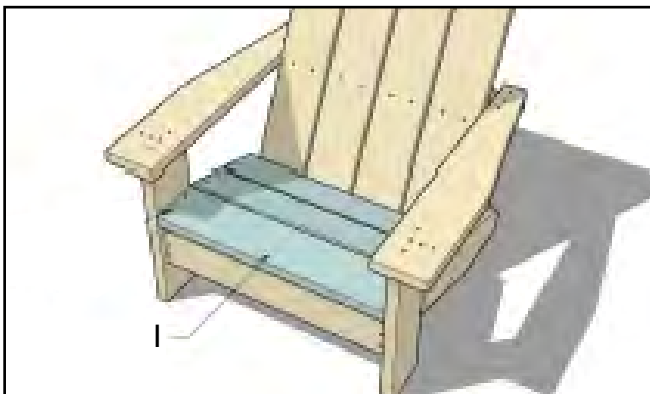


9. Take the four 1 in. x 4 in. x 21 <sup>13</sup>/<sub>16</sub> in. back slats and lean them on the middle back support, spaced <sup>1</sup>/<sub>4</sub> in. apart. Make sure the bottoms of the slats are flush with the bottom of the frame and secure to the middle back support and bottom frame using sixteen 1 <sup>1</sup>/<sub>4</sub> in. screws.
10. Lay the three 1 in. x 4 in. x 16 <sup>1</sup>/<sub>4</sub> in. bottom slats across the bottom legs, making sure the rearmost slat is flush with the vertical back slats. Space the slats <sup>1</sup>/<sub>4</sub> in. apart and secure to bottom legs with two 2 in. screws on each side of each board.
11. Locate the center of the back arch (approx. 7 <sup>3</sup>/<sub>8</sub> in. from the edge) and mark a 11 <sup>1</sup>/<sub>2</sub> in. radius curve along the top OR print and trace child Adirondack chair curve template from Appendix B. Cut the chair back curve with a jigsaw.

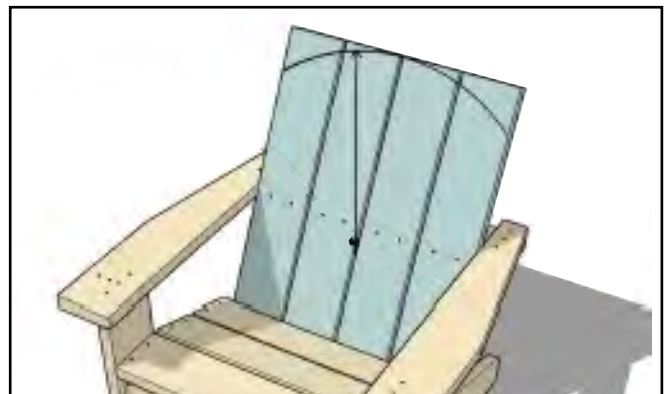
Step 9



Step 10



Step 11





## DIY ADIRONDACK CHAIRS

### BUILD PLAN

12. [OPTIONAL] Print and trace the cutout templates of your choice from Appendix C onto the back of the chair. Cut out the shape with a jigsaw.
13. Apply wood conditioner and stain and up to three coats of exterior spar varnish to finish.





# APPENDIX

# A

## ADULT ADIRONDACK CHAIR CURVE TEMPLATE

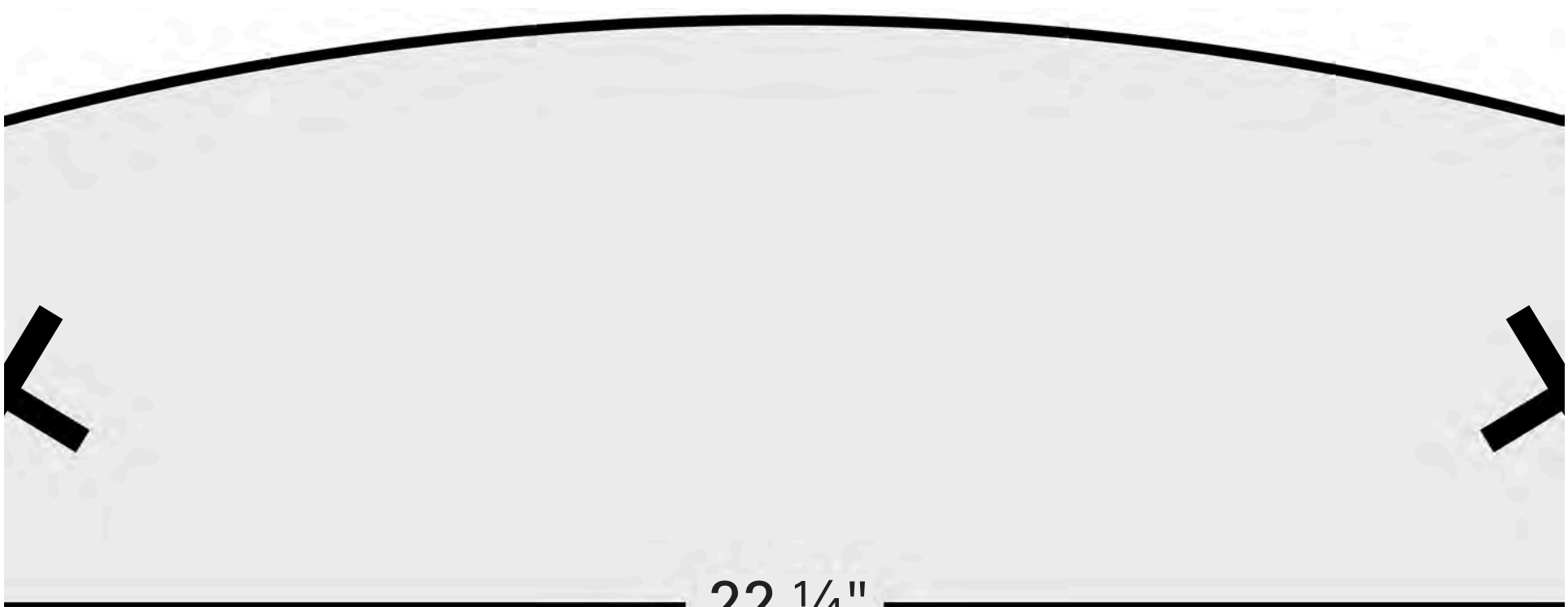
Adult Adirondack  
Curved Seat  
Back Template



30 1/2" to  
bottom of back



1"  
scale



22 1/4"

1"  
scale



Adult Adirondack  
Curved Seat  
Back Template



30 1/2" to  
bottom of back



1"  
scale



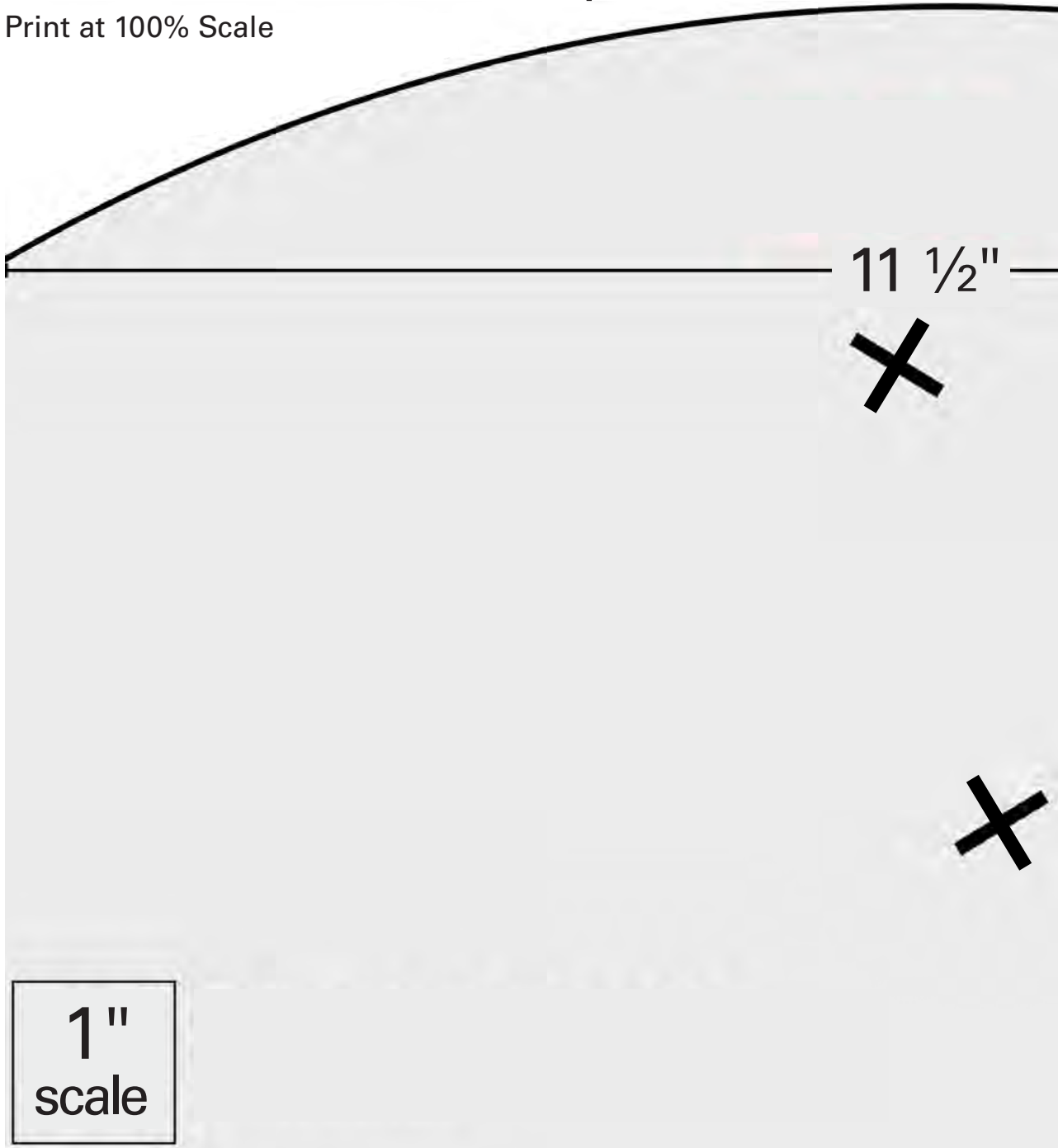
# APPENDIX

# B

## CHILD ADIRONDACK CHAIR CURVE TEMPLATE

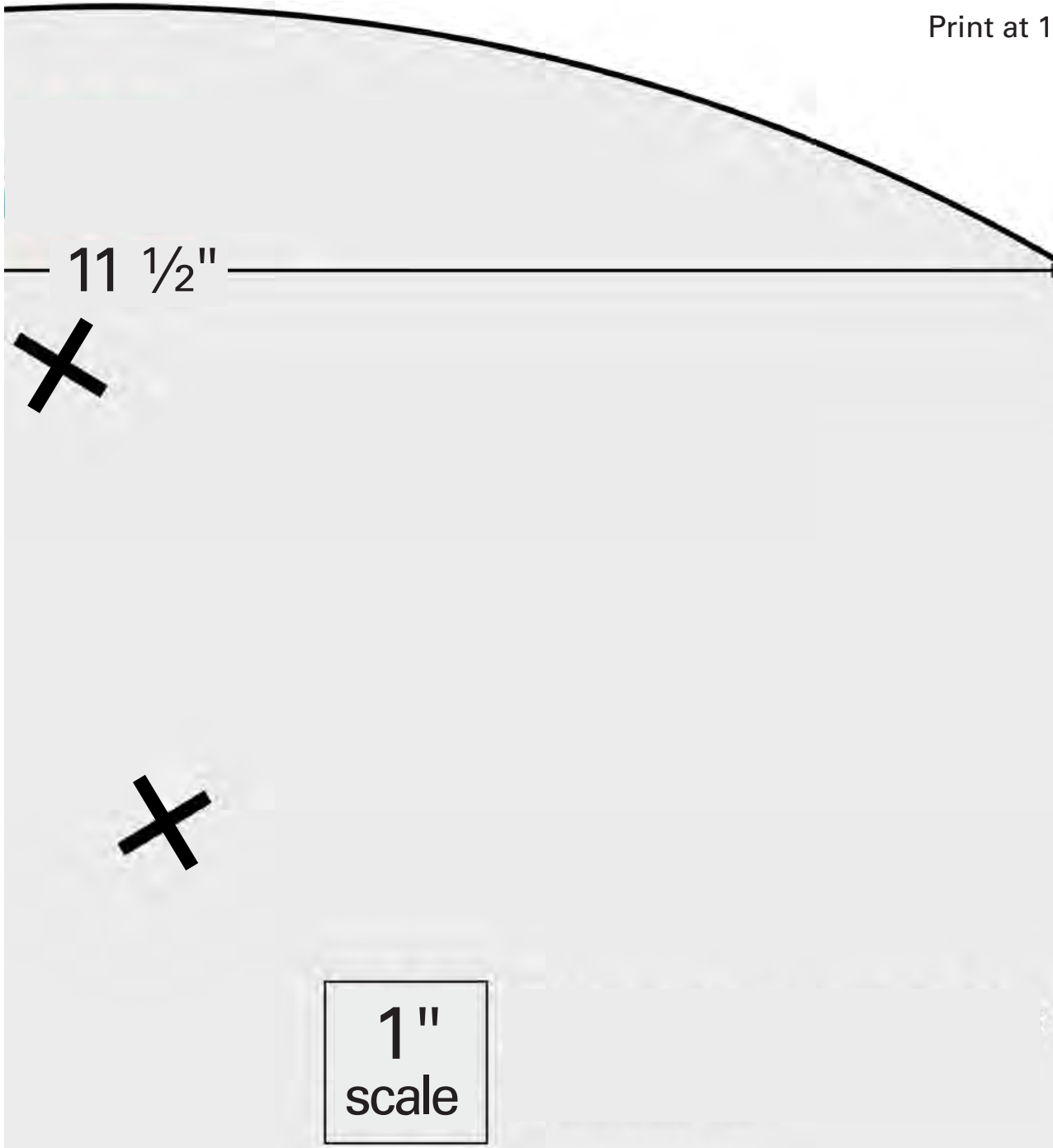
# Adult Adirondack Curved Seat Back Template

Print at 100% Scale



# Adult Adirondack Curved Seat Back Template

Print at 100% Scale





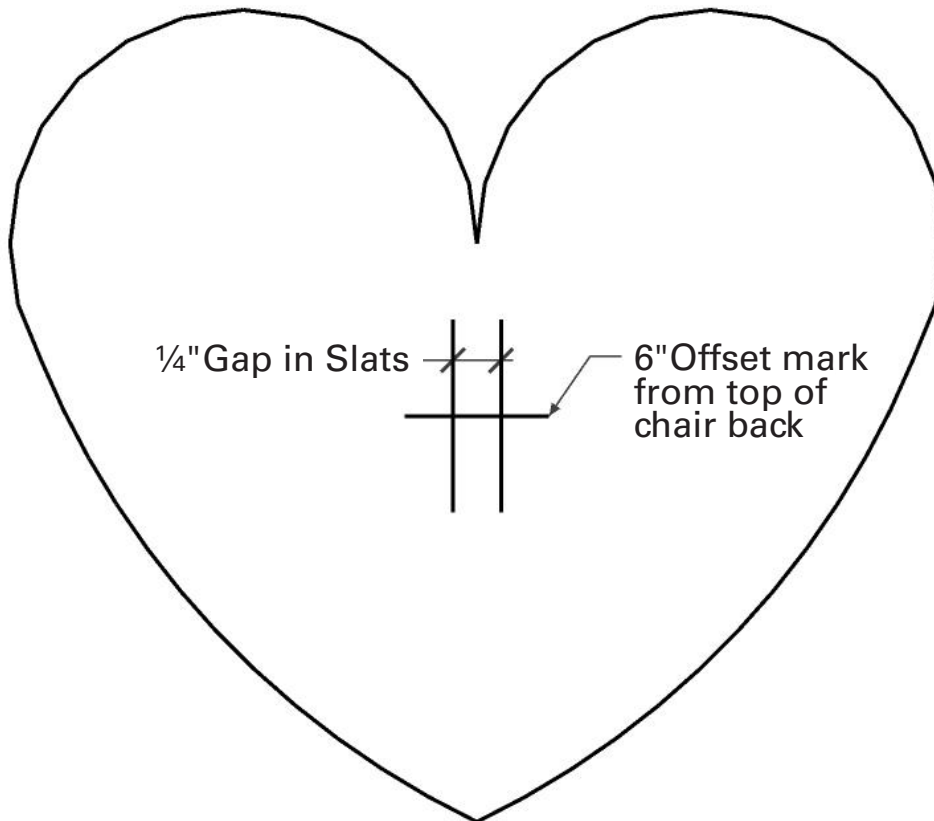
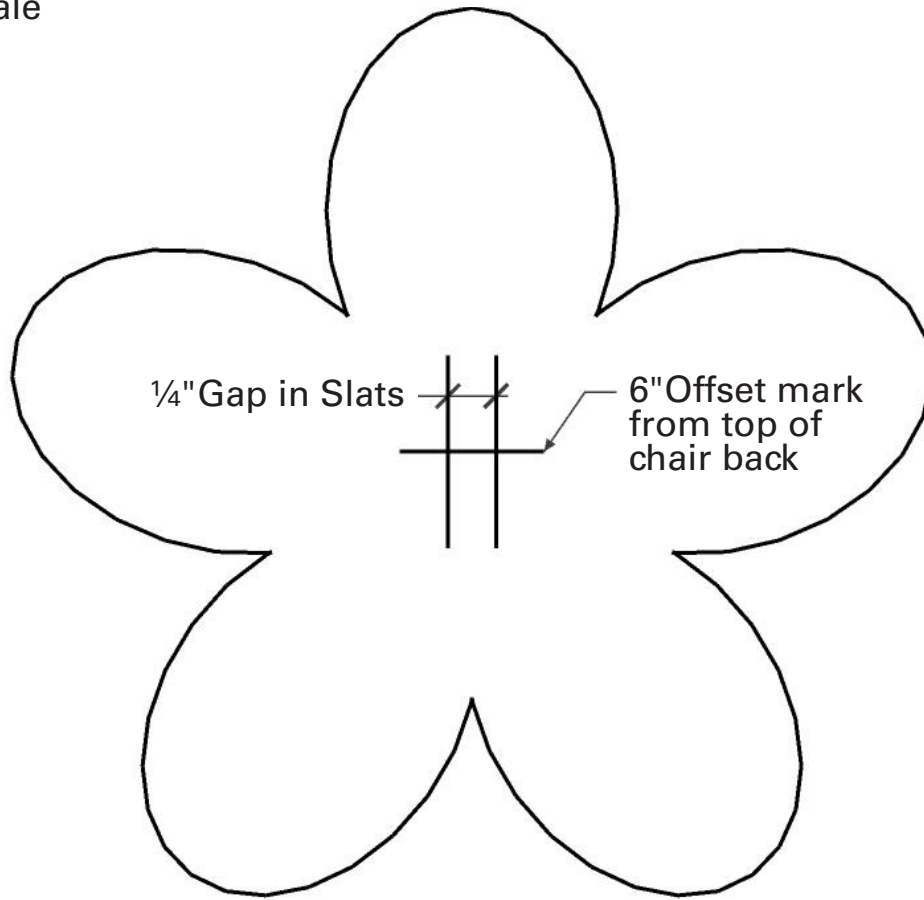
# APPENDIX

# C

## CHILD ADIRONDACK CHAIR CUTOUT TEMPLATE

# Flower and Heart Cutout Detail Template

Print at 100% Scale



# Moon and Star Cutout Detail Template

Print at 100% Scale

