



## Spark Makerspace Woodshop Class: Viking Chairs

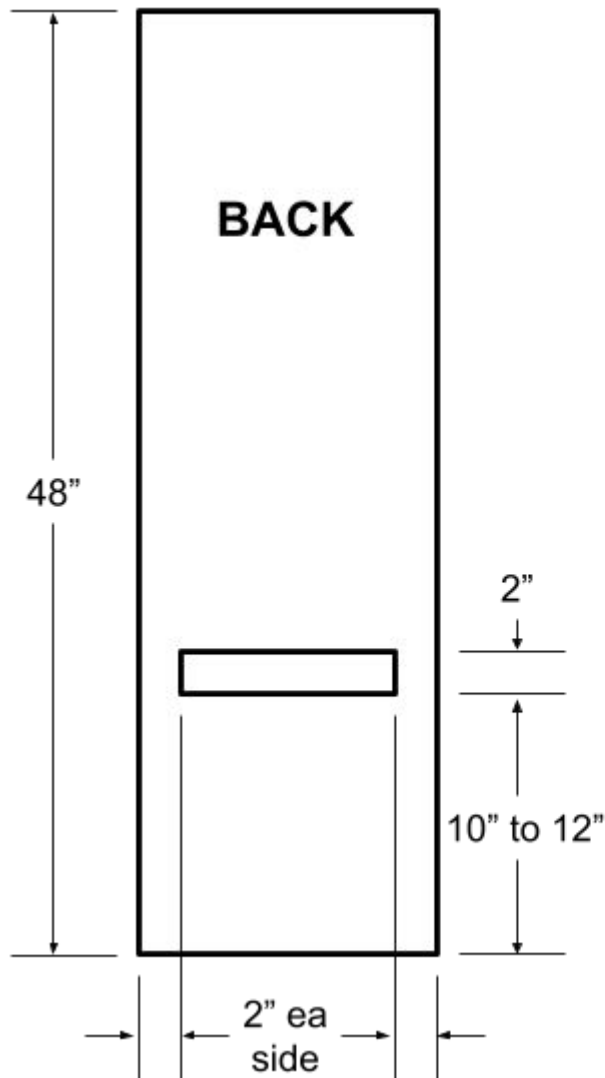
This class is intended to teach the use of common portable power tools. Students will make a Viking chair, also called a bog, stargazer, or one-board chair.

### Materials Required: (per chair)

- 2"x12"x8' (qty 1), cut into two 48" pieces

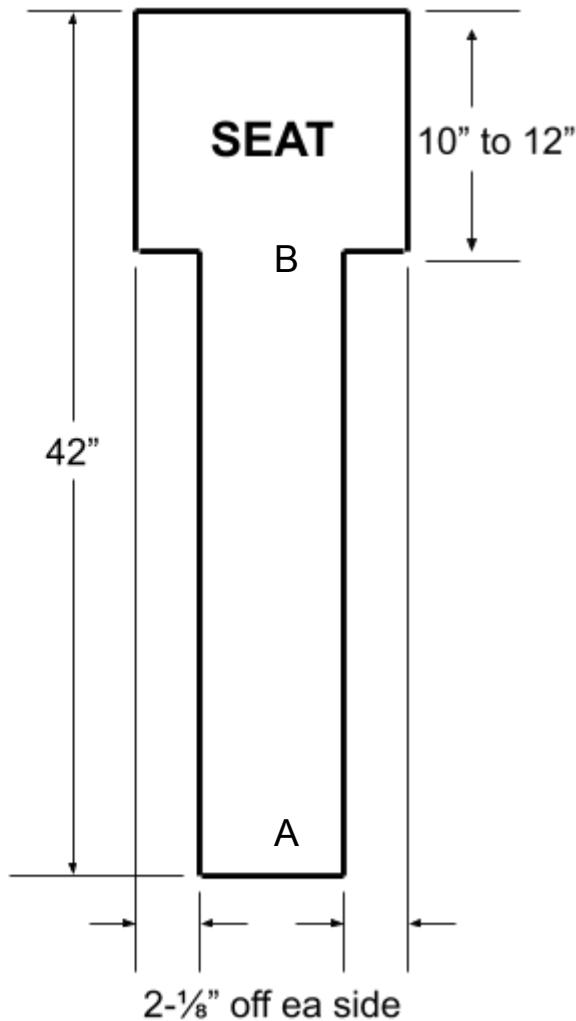
### Tools Used:

- Drill (corded or cordless)
- Jigsaw
- Belt sander
- Portable circular saw
- Router
- Orbital Sander



### **To make the chair back:**

1. Choose which portion of the board will be the leaning surface
2. Using a tape measure and square, mark the outline of the cutout (mortise) for the seat
3. Drill a hole large enough to fit the jigsaw blade anywhere within the marked outline
4. Use the jigsaw to cut out the slot for the seat
5. Use the belt sander to smooth the surface of the chair back
6. If desired, the back of the chair may be cut to shape, painted, carved, or otherwise decorated.



### To make the chair seat:

1. Choose the portion of the lumber to use as the seat surface.
2. Using a tape measure and straight edge (or chalk line), mark the length and sides of the seat for cutting as shown to the left
3. Use the circular saw to cut the sides off the tail of the seat, between points A and B, as shown to the left
4. Finish the cuts with either a handsaw or a jigsaw
5. Use a router and a bearing-guided roundover bit to round over all cut surfaces
6. Use an orbital sander to smooth the seat surface
7. If desired, the seat may be further shaped, carved, or painted

### Variations and Continuations:

The Viking chairs shown are an excellent starting point for further exploration of the basic form. They can be made out of almost any kind of wood with sufficient strength, can be of almost any shape, and can be finished in a variety of different styles. A few different outlines are shown below.

