

Shoot the Moon

Carpentry



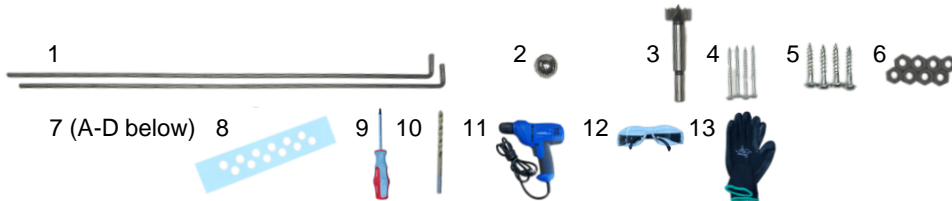
Shoot the Moon Game

- Provided Materials:**
- | | |
|---------------------|-----------------------------|
| 1. 2 Steel rods | 8. Marking template |
| 2. Ball bearing | 9. #2 Robertson screwdriver |
| 3. Forstner bit | 10. 1/8" drill bit |
| 4. 4 long screws | 11. Drill |
| 5. 4 short screws | 12. Safety glasses |
| 6. 8 spacers (nuts) | 13. Gloves |
| 7. Wood pieces | |

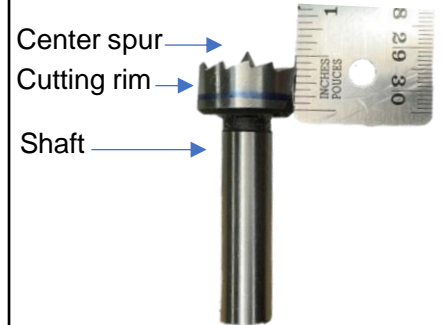


Safety First.

Before you begin, put on safety glasses and work gloves.



Forstner Bit



To maintain a consistent drill depth, use a marker to draw a line 1/8th of an inch down from the top of the bit. Stop drilling when this line is even with the top of the material.

Patented in 1886 by American inventor Benjamin Forstner.

Forstner bits cut holes that are smooth on the sides and flat on the bottom.

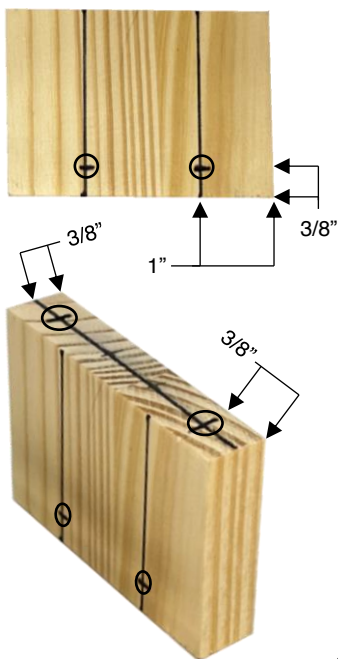
They have a spur at the center to hold the cutting rim place as you start to drill.



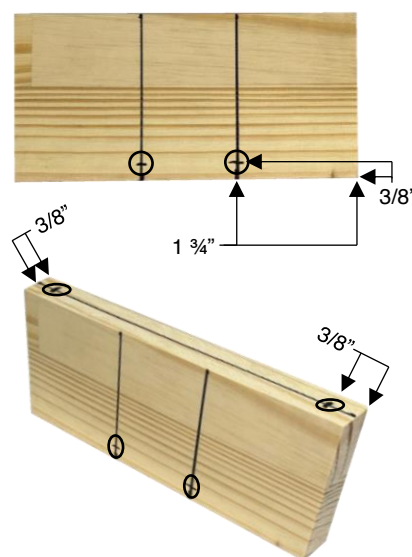
Safety First.

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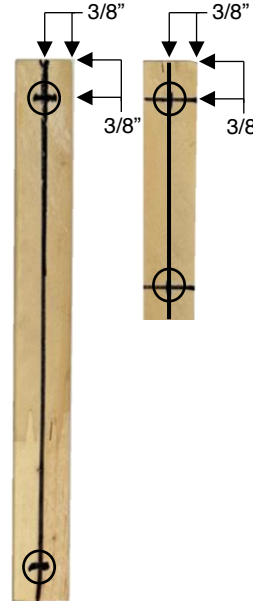
A) Small front board



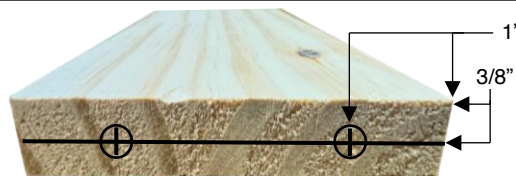
B) Large rear board



C) Board caps



D) Long base plate



Instructions

- Prepare to drill holes in the base plate.
 - Lay the paper marking template on the base plate.
 - To mark drill holes, push the point of your pencil through the center of the cross.
- Drill holes in the base plate.
 - Secure the Forstner bit in your variable-speed hand-held drill.
 - Place the drill bit's pivot point on one of the marks you made with your pencil.
 - Hold the drill upright.
 - On low speed, drill until the line you drew on the bit is level with the top of the wood. (Fig.1)

Fig. 1



3. Attach the front board and rear board to the base plate.

- With the holes on the front board (H) to the bottom, draw a mark $1\frac{3}{4}$ " from each edge, as shown in Fig.2. Use these lines to center the front board with the base plate. When aligned, predrill the screw position in the baseplate through the end boards to prevent splitting the wood when inserting the screws.
- Using 2 the 4 shorter screws (E), secure the front board (H) to the base plate, as shown in Fig.3.
- Using the other 2 shorter screws (E), secure the rear board (I) to the base plate, as shown in Fig.4 .

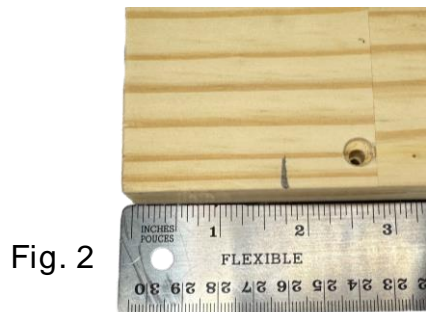


Fig. 2

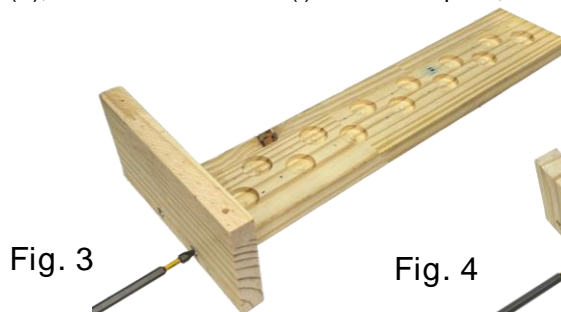


Fig. 3



Fig. 4



The goal of the game is to coax the ball up the rods and into the pocket closest to the backboard. This game was popularized in the 1940s, with names of planets applied to the successive holes, hinting at the approaching interest in space travel and exploration.

4. Attach the steel rods and rear board cap.

- Insert the steel rods (A) into the holes on the top of the rear board (I).
- Attach the rear board cap (J) as follows:
 - Position 2 spacers (F) over the hole on each side of the rear board (I).
 - Place the rear board cap (J) on top of the spacers.
 - Using 2 of the 4 longer screws (D), secure the cap as shown below.




5. Attach the front board cap.


- Attach the front board cap (J) as follows:
 - Position 2 spacers (F) over the hole on each side of the front board (H).
 - Place the front board cap (J) on top of the spacers.
 - Using 2 of the 4 longer screws (D), secure the cap as shown below.



6. Adhere felt pads (G) to the bottom of the base plate.

7. Put the ball bearing (B) on the steel rods. The objective is to manipulate the rods in such a way that the ball travels up towards the player, before dropping into a hole.

 Follow this QR code to view the instructions in video form, or visit: www.youtube.com/@skillsalberta

 Find PDF versions of these instructions at: skillsalberta.com/resources/try-a-trade-take-out



Try-A-Trade® Takeout Program	
Activity: Shoot the Moon	V3
Skill Area: Carpentry	
CTS Cluster: TMT	

Shoot the Moon

Project

Students create a classic game of speed and skill while learning to fabricate a custom-made wood product.



Carpentry

Schooling

- Four-year apprenticeship.
- Red Seal Journeyperson.
- Start early with the Registered Apprenticeship Program (RAP) or explore options available through Career and Technology Studies (CTS).

Jobs

- Construct, renovate, and repair structures made of wood, steel, concrete, and other materials.
- Work around the province, indoors and out.
- Average salary: \$72,252.00/year
- Average wage: \$33.27/hour

More information:



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