

# Hand Free Hand Washing Station



**Invented by Scouter Jeanne Sinquefield for use by Scout Camps and Scout Troops and other organizations to encourage safe hand washing. Built by ASM Alan Dodds, Star Scout Cayden Sinquefield Dodds from Troop 6, and Scouter Jeanne Sinquefield.**

**Great Rivers Council  
Columbia, Missouri**

# Hand Free Hand Washing Station

## Materials

1. 2 - Plastic  $\frac{3}{4}$ " Faucet(spigot) Lever type
2. 1 - Plastic Bottle with cap for soap (1/2 to 1 gallon).
3. 2 - 5 Gallon Plastic Buckets (one with lid)
4. 4 - Velcro strips 4 inches (optional)
5. 2 - Paper Binder Clips
6. 10 feet - String or thin Rope
7. 2 - Tennis Balls
8. 1 - 24" by 18" by  $\frac{3}{4}$ " Wood (base)
9. 2 - 6" by 4" by  $\frac{3}{4}$ " Wood
10. 2 - 3" Hinge with screws
11. 2 - 2 Gallon Ziplock bags
12. Text/logos (3 pdf pages)

## Tools Drill

- Screwdriver
- Hand Saw
- Scissors
- Duck tape

## Instructions

1. **Insert Plastic Faucets (2)** one in fresh water bucket, one in soap bottle. Use Instructions with faucet to drill hole to insert. Use  $\frac{3}{4}$ " drill bit.
2. **Foot Pedals** Cut two pieces of wood 6" by 4" by  $\frac{3}{4}$ ". Drill  $\frac{1}{4}$ " hole near top center of each piece. Attach 1 piece to each side of 24" by 18" by  $\frac{3}{4}$ " wood base using hinges. Attach Tennis Ball 4  $\frac{1}{4}$ " from hinges with wood screw. Slit top of ball (for screwdriver or drill) and screw through the ball into wood base.
3. **Attach String** Tie a 5' long string to each paper binder clip. Run string through hole on each foot pedal. Tie taut line hitch knot to string above foot pedal.
4. **Stack buckets** Place Soap Bottle on top of fresh water bucket lid, attach with Velcro or tape. Place lid on fresh water bucket. Place waste water bucket on wood base between foot pedals. Use a table, tripod, fence or tree for fresh water bucket stand. Attach paper binder clip to matching faucet (SOAP on left, WATER on right). Adjust taut line on each string to gently pull faucet lever down. Left foot pedal for soap, right foot pedal for water. Add water to fresh water bucket and soapy water to soap bottle. (20% soap, 80% water).
5. **Labels** Use Ziplog bags to water proof labels for buckets, soap bottle and foot pedals. Tape as show in pictures below.
6. **Wash, Hands Free** with soap and water. Dispose of waste water safely. Add soap and fresh water as needed. Clean Bucket regularly.

**Faucets**



**Foot Pedal**



**Hand Washing Station**



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## Fresh Water



# Hand Free Hand Washing Station

## Waste Water



# SOAP WATER



# SOAP

