

# Kon Tiki Resources

Raft-building tip & tricks, guidelines, suggested materials, online resources. Google “raft building”. Also check out [Pinterest](https://www.pinterest.com/) <https://www.pinterest.com/> for many ideas.

Building your own Patrol or Unit Raft is a great way to show Scout Spirit and develop teamwork by planning and completing a project. And have a ton of fun doing it!



1. Includes Buoyancy Calculations for Milk Jugs - <http://www.instructables.com/id/Build-a-Milk-Jug-Raft/>
2. Milk Jug Raft - you'll need about a 1000 feet of duct tape for this one! <https://www.youtube.com/watch?NR=1&v=KJ82yrLDe7o&feature=endscreen>
3. Connecticut River Race Raft Building Guidelines - excellent website; be prepared to take notes. <http://www.ctriverrace.org/smartphone/2016raftbuildinginfo/2016raftbuildinginfo.html>
4. Connecticut River Race - Advance Raft Building - <http://www.ctriverrace.org/smartphone/advancedraftbuilding/advancedraftbuilding.html>
5. Storage Bin Raft - <https://www.youtube.com/watch?v=KJQZ6i8Q7jo>
  - a. Description & Parts List: <http://catsandcarp.com/2014/08/how-to-build-the-ultimate-fishing-raft/>

Buoyancy Calculation for Storage bin raft: Calculate the displacement of the water. One gallon = 8.34 lbs. A 18 gallon tub sunk 1/3 deep in water displaces 6 gallons which equals 50 lbs. So 3 bins will sink 1/3 into the water with 150 lbs. However, the problem is not sinking, its tipping. If you had 4 bins you would have a platform that is twice as stable as 3 bins.

6. Barrel Raft How-to: <http://barrelraftboys.com/raft/the-barrel-raft-build/>



Blue Barrel Raft - scavenge at Car Washes (be sure to clean thoroughly as they originally contained detergent - not good for Clear Lake!). Or try 5-gallon joint compound containers (clean thoroughly) or scavenge at bakeries (jelly for jelly donuts are packaged in these).



2-liter Soda Bottle Raft - start saving NOW!



Trussfab Boat - 3-D Printed Connectors hook-up plastic bottles! You will need a lot of connectors!

<https://www.3ders.org/articles/20170425-new-trussfab-software-uses-3d-printing-to-make-boats-furniture-and-buildings-out-of-plastic-bottles.html>



Foam blocks - Scavenge at marinas or buy at Home Depot or Lowe's. Sometimes available in blocks.



PVC Raft - alternative to a wooden frame, use PVC-pipes of various sizes and diameters.

