

# Homemade Solar Water Purifier

Purifying water is a vital skill in any survival situation. There are lots of different ways to achieve clean, safe, drinkable water. The best bit is that it's actually pretty easy to do! Here's one idea of a water purifier that you can make at home using recycled items from the kitchen. It is perfect for the approaching warm weather as it uses the sun to do all the hard work!

## What you will need:

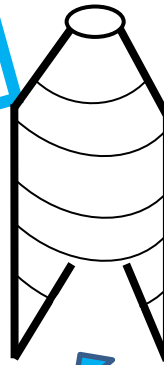
- 1 x Large Plastic Bottle with lid (empty)
- 1 x Smaller Container (glass jar, tin can etc)
- Scissors



Cut the bottom off the plastic bottle. Put the bottom bit away to use on another project - you won't need it for the solar purifier



Fold the bottom edges inwards to create sloped flaps inside the bottle.



Fill the smaller container with dirty or salty water.



Find a level surface in a sunny spot to place it.



Carefully put the plastic bottle over the smaller container so that the container with the dirty water is inside the plastic bottle.



Wait for the sun and science to do their thing!

The heat from the sun will cause the water from the smaller container to evaporate. It can't escape the plastic bottle so will condense on the inside of it. The droplets of clean water will run down the sides and collect in the plastic bottle. It won't hold much clean water so be sure to empty it regularly!