HOW TO MAKE A SOLAR STILL

**materials**
- MUDDY WATER
- LARGE PAN
- PLASTIC CUP OR GLASS (shorter than the pan)
- PLASTIC WRAP
- SEVERAL CLEAN MARBLES
- A ROCK OR MARBLE
- MASKING TAPE

**directions**

**step one**
Put about 4 cm of muddy water into a large pan. Put a cup in the center of the pan. Use a few marbles at the bottom of the cup to keep it weighted down.

**step two**
Cover the pan securely with plastic wrap, but leave a little slack. Use your finger to put a little water around the rim of the pan so that you can make a good seal between the plastic and the pan. You may want to use masking tape to keep the plastic in place.

**step three**
Put a rock or marble on the center of the plastic so that there is a slight dip in the plastic over the cup. The plastic should not touch the cup. Water that condenses on the plastic will drip into the cup.

**step four**
Put the still in direct sunlight. Over several hours, pure water should collect in the cup.

Now you know a handy survival skill if you ever need to drink clean water!

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A solar still uses the natural process of evaporation and condensation to purify water.

**HOW IT WORKS:**

one. The sun heats muddy water in a large container.
two. The water turns into vapor & the mud is left behind.
three. The vapor is captured on a plastic sheet covering the container.
four. The plastic sheet is cool because of the cooler air outside the container, which makes the water vapor condense.
five. The water droplets drip into a smaller, clean container.

(make this!)

(solar still)

WATER PURIFICATION

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