

CAPTURING RAIN

Activity 5

Make Your Own Water Filter

You will need – a clear plastic bottle, ½ cup dirt, 2 cups sand, 2 cups gravel, glass of water

Step 1 Cut the bottom off of the bottle about two inches from the bottom. This part can be dangerous, so it is a good idea to get help from an adult for this part. Leave the cap on it.



Step 2 Turn the bottle upside down so that you can pour the gravel in it. It works best if you put larger gravel in first because it plugs up the hole that is capped.



Step 3 Pour the sand over the gravel. It will fall through the gaps in the gravel.



Step 4 Mix the dirt in the water.



Step 5 Pour the dirty water on top of the sand in the bottle.

Step 6 Carefully take off the bottle cap and put the bottle spout into a tall glass or some container that can hold your filter upright. Watch the water seep through the sand and gravel. In the picture to the right, you can see the layers get darker as the water flows down through them. Click on the picture to make it bigger and easier to see.



Step 7 Check out that water! The layers of sand and gravel should take out the dirt in the water.



REMEMBER: DO NOT DRINK!