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Washing Water To'Ta'nagiz

My project, to' (meaning water in the Navajo Language), ta'nagiz (meaning washing), Washing Water is about creating a homemade water filter using natural resources to remove large unknown particles from windmill water. I created this idea from being at my grandparents' house who live on the Navajo Reservation in Arizona. With some research, I built four water filters using close natural resources. I think all of my filters will work well and remove most of the unknown particles. I did a process of elimination to see which one of the four would work best. I used two liter bottles for each filter. I started by cutting off the top, then drilling holes in each leg of the bottle. Filter one had large and small rocks with beach sand inside separated by coffee filters. Filter two used three separate bottles instead of one, but still contained the same minerals. Filter three was just like my second, except I replaced beach for red sandstone sand. Filter four used only the two types of rock, still in separate containers. I ran the water through each filter by placing the filter on a cup in a bowl. In the end, my fourth filter worked best because the water was not tinted by sand, so it came out clear and the results were easier to see. I hope that by conducting this experiment, I will be able to improve the lives of my grandparents ~ by building a simple water filter to help clean their water.