**Water Filter Activity**

**Objective:**

Design a filter to clean dirty water.

**Your team will be given the following materials for your water filter. All filter materials must be put into the cup with a hole at the bottom.**

**Materials:**

* Gravel (1 cup)
* Sand (1 cup)
* Cotton Ball (10)
* Coffee Filter (1)
* Cheese Cloth (1)
* Screen (1)

**Rules:**

1. 30 Minutes to design (draw) and construct the filter
2. Must fit into the filter cup with hole at the bottom
3. Effectiveness of the filter will be based on water quality - how clean it looks
4. You can put water through the filter more than once in the 10 minutes

DO NOT DRINK THE WATER!

**Explain Your Designs:**

In the space below, draw your design and write a short explanation of what materials you used and why.

**Example:**

Cheese Cloth

Gravel

Sand

Cotton ball

Did your filter work as you expected? What would you do differently if you designed it again?