

EXPERIMENT ONE - FILTER

Think
before
you
flush



EQUIPMENT:

2 x 2l Plastic bottles
1 x Scissors
1 x Coffee filter
1 x ¼ cup sand*

1 x ¼ cup cotton balls*
1 x ¼ cup small rocks*
1 x ¼ cup mud*

*Doesn't need to be accurate measurements

PROCEDURE:

1. Cut the 2 x 2l bottle to make a container and funnel
2. Layer the coffee filter, sand, cotton buds and rocks in one funnel and nothing in to the other
3. Mix mud and water
4. Pour the dirty water in to both funnels
5. Observe the results in the clear containers – observe the colour and smell of the water in both containers
6. Repeat step 4, notice any changes from the first time it was poured

EXPECTED RESULTS

- The water that flows through the funnel with no filter will be muddy and dirty
- The water that flows through the homemade filter will be cleaner, however it may not be clear
- Bits of mud will be stuck in the filter
- See if you can see which layer of the filter trapped the dirt
- Repeat step 4 a number of times, the water should get clearer with every pour

WHAT WE LEARN!

Clean water is cleaned using filters

Filters are made out of different layers

Filters are used in a waste water treatment plant to clean dirty water



@CleanCoasts

#thinkb4flush

www.thinkbeforeyouflush.org



Think Before You Flush is operated by An Taisce's Clean Coasts programme and is supported by Irish Water