

# RECIPE FOR A RESURGENCE

## Ingredients

- a plastic bottle narrow entrance with a cap
- cotton swab
- green clay
- sand
- gravel
- expandend clay
- dirt
- a ruler
- scissors or cutter
- a water jug



## Process

- Cut the end of the bottle with the cutter or scissor
- Close the bottle tightly and insert the cotton swab in the bottle so that it covers the entrance
- With the ruler's help we make 3 cm layers for each materials starting from the green clay and following the materials order finishing with the dirt in the surface
- Take out the cap paying attention that the material doesn't exit and that the cotton swab support everything, then fill the bottle with water slowly
- See what happens



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## We observe that

The water exit or it's hold by the layers?  
Where does it stop eventually?  
If it exits, how much time does it take?  
And what colour is it?  
Wait for a couple of minutes, do you notice any differences?

You can experiment with different layers by changing the order of the materials or their quantity.  
Take notes about what happens!



## Explanation

The layers that you can find in high plain are thicker, so rain drops can infiltrate and run through layers until the low plain. This soil is made of thinner materials: that can slow down or stop the water passage. The underground water table will fill up until the surface layers let the water rise again making resurgence.



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