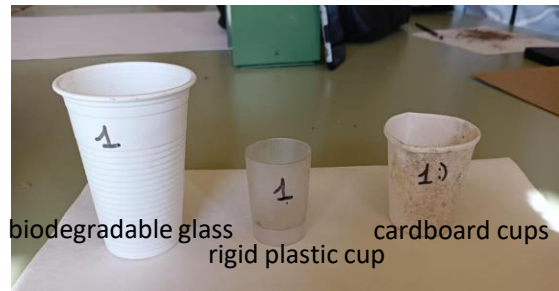


“THE DECOMPOSITION OF: PAPER CUP, BIODEGRADABLE GLASS AND RIGID PLASTIC GLASS, IN THE GARDENS OF OUR INSTITUTE”

3 DE ESO DIVERSIFICACIÓN. IES MEDITERRANEO (MÁLAGA)

¡We observed that in my center one of the most polluting materials is plastic.!



PROCEDURE

- The first thing we do is take 3 glasses of each material
- We weigh the three glasses (three types of glasses)
- We use 4 glasses of each type
- With a marker we number the vessels by date of unearthing.
- We buried the second one at a time, respecting a certain distance.
- We wait a certain amount of time to take them out, one glass every month.
- Every time we remove a buried glass, we weigh it to see the lost mass.
- Once we have weighed all the glasses we will be able to see which of all these materials is the least contaminating.

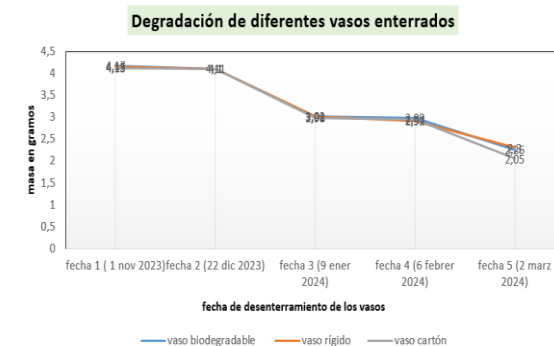


WEIGHTS OBTAINED

WE REMOVE DIFFERENT MATERIALS FROM THE EARTH ON DIFFERENT DATES



Pesos de los vasos	Peso inicial	22 de diciembre	9 enero	6 febrero	2 marzo
Vaso 1 biodegradable	4,17g	4,11g	3,01g	2,99g	2,26g
Vaso 2 Plástico rígido	4,15g	4,10g	3,02g	2,92g	2,30
Vaso 3 cartón	4,13g	4,10g	2,98g	2,94g	2,05g



CONCLUSIONS

- In 123 days of buried glasses: the cardboard cup is the one that has suffered the most degradation, then the biodegradable cup and then the rigid plastic cup
- At 48 days is when significant degradation is observed.
- We have had many problems: because the glasses are dug up wet and difficult to dry, and we have had to weigh them one or two weeks after digging them up, cleaning them and weighing them.

WE ENCOURAGE THE INSTITUTE TO USE REUSABLE CUPS BECAUSE DEGRADATION IS VERY SLOW EVEN FOR CARDBOARD AND BIODEGRADABLE CUPS