VERMICOMPOSTING FOR KIDS

World Soil Day

"Keep soil alive, protect soil biodiversity"

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A great diversity of organisms with very significant functions for life on earth lives in soils. Among them are earthworms that contribute to improving the soil. Let's see how these earthworms work and what benefits they bring to the lands.

We all participate in the transformation of our world. Taking care of the soil and giving value to organic waste is something we all do together. Educating for the sustainability of our planet is our challenge. Encouraging schoolchildren to take care of the earth will be beneficial for their future and everyone else's. In this booklet, we propose the apprenticeship of vermicomposting as a process of organic waste recovery and learning about the soil.



Introductions



Hello! My name is Pablo. We are going to learn a lot from Galeriana and Cali. They are going to teach us how to make vermicompost. Do you know what it is?

Morning! I'm Claudia,
Pablo's little sister. I love
to learn about nature,
just like my brother.







WHAT ARE WORMS LIKE?



WHAT ARE WORMS LIKE?



AND WHAT DO THEY EAT?



My brother has told me that the leaves of trees, small twigs, fruits of trees, remains of crops, and much more reach the soil. And, I wonder if earthworms feed on what gets to the ground.









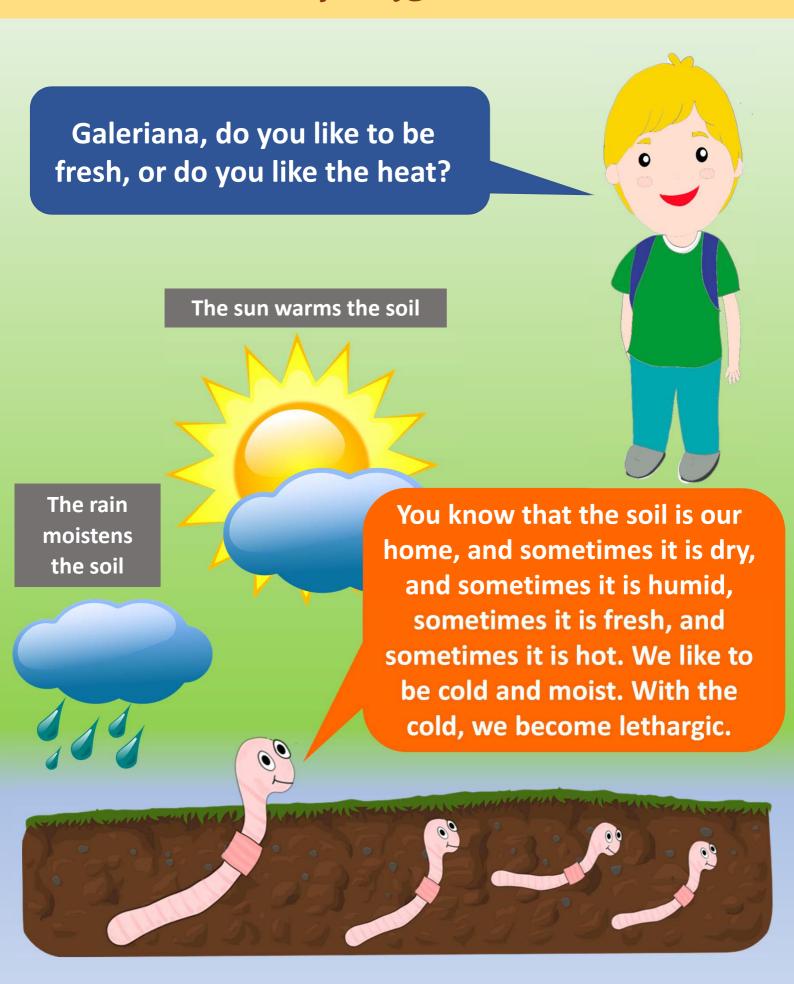
WE EAT



Yes, yes, we eat plant debris and also soil. We Californian red worms like to eat a lot. Now you know why my name is Cali.



THE HABITAT IN WHICH WORMS LIVE



THE EARTHWORMS ALLIED TO THE SOIL



THE EARTHWORMS ALLIED TO THE SOIL



I leave here some interesting information. If you have doubts, your teacher will surely help you to solve them.



- ✓ The worms turn, aerate and fragment the organic waste that reaches the soil.
- ✓ Some worms can eat an amount of food equivalent to their weight in a day.
- ✓ Earthworm humus is rich in plant nutrients. Thus, it is a fertilizer product for the soils.
- ✓ Worm humus contains a large number of bacteria giving origin to a wide variety of enzymes that act beneficially on the soil.
- ✓ Thanks to the galleries that the earthworms make, the water circulates better in the soil.

VERMICOMPOSTING



We can all feed
Galeriana and Cali, and
we can help improve
the soil. Remember
that the vast majority
of food comes from
the soil.



VERMICOMPOST

Vermicomposting is a transformation of organic waste into high-quality natural fertilizer.

This fertilizer is called vermicompost when the worms intervene in the conversion of the residue.

VERMICOMPOSTING

Now, we are going to prepare a vermicomposter. Claudia and I are going to prepare two, one for our family garden and one for the school garden.

Find a container to put the soil, worms, and organic waste. We can use a white cork box to which we will make some holes in the lid.

Put in the box a mixture of soil with fresh organic material (vegetable remains, manure, etc.). Then, moisten it and put the worms in.



Do not forget that we need shade, water, and darkness to live.



After a week, when we have gotten used to our new habitat, you can put organic waste on top of the soil.



We say goodbye. If you have any questions, you can write to edafoeduca@upv.es



With this booklet, we want to contribute to achieving the Sustainable Development Goals, including SDG 2 and 15.



SDG 2. Zero Hunger

Improve the quality of land and soil to end hunger.

SDG 15. Life on Land

Protect, restore, and promote sustainable use of terrestrial ecosystems.





