

IT'S TIME FOR ACTION



JOIN US!
BECOME A MEMBER
OF THE SOIL LEAGUE
TO KEEP SOIL ALIVE
**PROTECT SOIL
BIODIVERSITY**

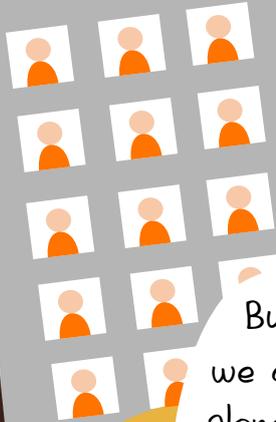


Soils produce less food every day. People are getting sick because food has fewer nutrients. Someone has to do something!!!

Our soils are getting worse every day! Life on Earth is threatened!!!

Did you know that around
95% of our food
is directly or indirectly produced
on and from our soil?

FUTURE MEMBER



Soil League, we called for this emergency meeting to help the soil. We need to work together and recover the life in it.

OMG!

But... but, we can't do it alone, we need to make contact with them!

Bacteria sitting here

The humans?! They won't listen...

They will... they also need the soil.

SL

Did you know that bacteria and fungi live in the soil?

They are so small that we can only see them through a microscope! There are also mites, worms, insects, and large animals such as moles. All of them together form the **BIODIVERSITY** of the soil.

We will invite all the children around the world to join us in this mission.

Our future is in their hands.



Hello Alice!
We have seen your love for nature and how much you care. We are here because you are super important in our mission to save the world.

The soil is more than just dirt, as it hosts one of the largest ecosystems around the globe. But it's dying, and we need your help to recover its biodiversity.

Did you know that when leaves, twigs, flowers, and fruits fall from plants and reach the ground, insects, mites, and worms cut them into tiny pieces?

Then bacteria and fungi break down these pieces producing nutrients that feed plants.

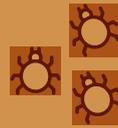
[invisible heroes]



bacteria



fungi &
algae



mites



earth
worms



insects



mole

But the soil is more than the house for many of us. It's also needed by all beautiful plants and trees to grow. Farmers need healthy soil to grow the crops that feed the world, and without it, neither humans nor animals would be able to enjoy their favorite foods.

What if we grow a garden together?

Gardening is a healthy, easy, and fun activity to enjoy with friends and family. You will learn while growing plants, setting up a worm farm, and even cooking what you harvest.



Hi Robin! I saw you didn't finish your snack. Let's avoid wasting food. Every day more soil is needed to produce food. Also, forests are cut down to have more land to plant. And by removing these trees, the soil loses its biodiversity.



Did you know that some bacteria and fungi attach to the roots of plants and help them get nutrients?

Plants also help these bacteria and fungi to nourish themselves. Everyone helps each other.

It's key to eat always all your food to grow healthy and strong.

Also, it's crucial to avoid letting food get wasted. Try to pack your snack in small portions. This way, you will be able to decide how much you want to eat, and if you don't want to eat anymore, you can always save the food for later.



What if we grow a seed in a cup?

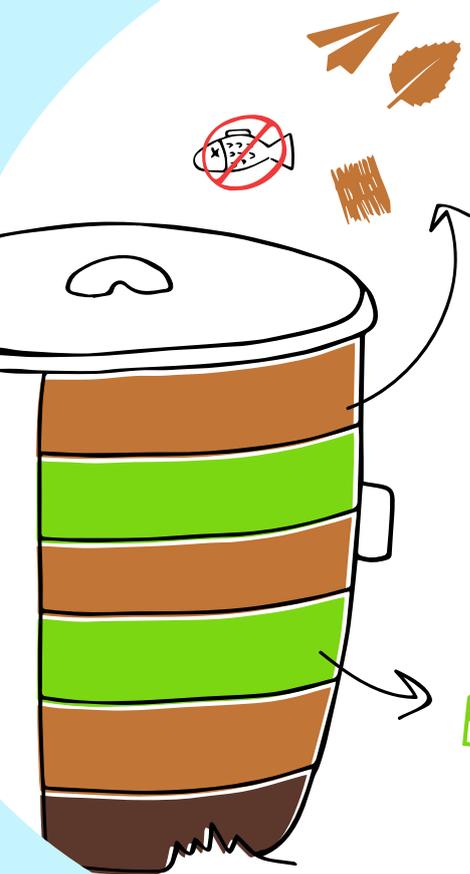
It's easy! Fill a transparent cup with some soil and put in some beans or corn grains (they have to be raw). Water them carefully every day. After a few days, the seed will germinate, and you will see how first the roots begin to grow. These roots are also part of the biodiversity of the soil.



Hi Peter! I come from a nearby field where they grow tomatoes, which you like to have with your pizza. Now, we don't have much food there because of chemicals. They used to make an organic compost by mixing the dried leaves and the skins of the fruits and vegetables. Oh! that was good food.

Did you know many farmers use large amounts of chemical fertilizers and pesticides to make their plants grow taller?

This works for a short time. But it contaminates the waters under the ground, the rivers and lakes, and the soil.



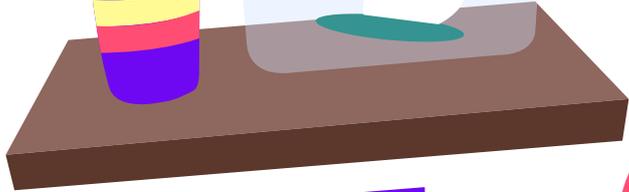
We are small, but we can make large quantities of compost. What we need is a bed filled with soil, fruit and vegetable peels, dry leaves, and we like manure too. Crumble all that, and then let us worms do the rest. We will eat it and transform it inside our bodies, and what we excrete is the compost that plants love.

YES!



What if you had an earthworm farm in your school?

Talk to your teacher about it. Making a worm compost is very fun and useful. You can use it in your school garden or bring it back home to give your plants some extra nutrients.



Hello Mary! We need your help to save the soil! Yes, our soil is losing the nutrients that plants need. And plants nourish humans and animals on Earth. We have to do something!

Did you know that many insects are CRUSHERS?

They cut leaves, flowers, and fruits into tiny pieces. Then they take those pieces to their home, which is in the ground. Many smaller friends, like mites and springtail, continue to cut these pieces and also feed on them.

Would you like to see what insects do in the ground and learn more about them?

You can do it in a garden or a park. Watch the insects that move over the ground. If you can, remove the top of the soil a little bit with a shovel, but not too much!. You will find some hidden insects if you are lucky. Take a photo of them and then search in a book or online for the insect's name and what it does in the ground.

What if you talk to your teacher about collecting insects as a class project?

Every student could catch a few earth dwelling insects in a small transparent container. Remember to make some pinholes in the lid, so our six-legged friends can breathe. Then make an exposition of live insects in the class, and share with your classmates what those insects do to help the soil.





What kind of animal is it?

It's a mole. Moles live in the ground. I don't understand what's doing in the city.

Hi guys, I can explain.

Did you know that underground, all beings, even the roots of the plants, need to breathe air and drink water?
Moles, worms, ants, and insects, dig and move the soil, creating holes and tunnels through which the water and air can pass more easily.



The mole and many other animals had to flee from the forest in which they live. Some people are cutting down trees and leaving animals without food and their home.

The trees they cut down is used to make paper, toilet paper, cardboard, and many other things.

What if we help reduce deforestation by using less paper?

Try to use less amount of paper writing or drawing. Write or draw on both sides before disposing of the paper. Also, do not let the paper get dirty, and don't put it in the trash, so you can properly recycle it after using it. Want to help even more? What about planting a tree near your house or school?

Friend, you can join us and save the soil biodiversity. Share with your friends and family what you know about the soil.

Also, let them know it is in danger. Deforestation, chemical fertilizers and pesticides, and tractors that till the soil are some of the threats.

Only together we can do something to save the planet.

We need you!



MOLE'S GLOSSARY

Biodiversity: Variety of plants, animals, insects, and other living creatures on earth.

Nutrients: Substances in food that help plants, animals, and humans live and grow healthy.

Bacteria: Microscopic living thing, made of one cell each, that live in all parts of the earth.

Fertilizers: Natural or chemical substances that help the plant to grow.

Pesticide: Natural or chemical substances that kill some insects and fungi that harm plants.



If we take care of the diversity of the soil, soils will keep their nutrients, and plants will grow healthy food to feed animals and humans!

We are happy to know many of you will join us!

**WE ARE
READY FOR
ACTION!**

IT'S TIME FOR **ACTION**

Join Us!



We are looking for brave children who want to become part of the Soil League and keep soil alive protecting it's biodiversity.

Let's get hands on:

- Learning about the environment
- Preserving natural resources
- Protecting forests
- Promoting good farming
- Saving earth dwelling animals
- Creating a better future