The amazingness of earthworm poop!

When you take a walk in a garden or a forest, look out for earthworms -the small geniuses! They help paints grow

By Arshiya Urveeja Bose

helps trees grow big and tall! self. Who was the engineer do. I collected a few towers of In our experiments, we com-Don't believe it? I didn't be- that built them? lieve it either...till I took a long walk in the forest.

tricks on me by imagining a in my brain. leopard's tail hanging from a no sign of leopards, elephants, Sarah said.

Clever ecologist

noon. I was walking through who is a very clever ecologist, the forest watching for knewtelepathically about the ten, our calculations are tube. Because we wildlife. My eyes were playing questions that were churning messy and confusing and we were comparing

mals were missing. There was worm poop is awesome!" as crystal.

stead, the forest floor was worm poop before and did not brainy scientists but because his is a story about the blanketed with thousands of think that any animal's poop our subjects, the earthworms, world's most amazing miniature towers made out of could be considered aweanimal poop! This poop mud. What were these pecusome. So, I did what any curiis so marvellous that it liar towers, I thought to my- ous and crazy ecologist would The experiments them back to my science lab.

Usually, when scientists sults are not always clear. Of-regular soil in another test end up quarrelling with one earthworm "The towers are earthworm other. But the results of our poop with tree branch. But the big ani- poop!" she exclaimed. "Earth- worm experiment were clear

hornbills or sambar deer. In- Now, I had never seen earth- This was not because we are are splendid creatures.

earthworm poop and took pared the earthworm poop with regular soil that we had collected from nearby. We put It was a hot, muggy after- My friend, Sarah Johnson, conduct experiments, the re- the poop in one test tube and

> regular soil, we had to be careful that the two samples did not get mixed up. So



Did you know that an earthworm poops 90 kilos every year? Imagine a thin and tiny earthworm pooping so much year after year! The earthworm's entire poop goes back into the soil as rich fertiliser that helps trees and plants to grow tall and become strong and healthy.

You see, earthworms are busy recyclers. They break down dead plants and animals. Without the help of earthworms, every plant and animal that died in the forest would stay exactly where it died. Trees, leaves, fruit and nuts would keep piling up and soon we would all be living under the ground. Earthworms decompose all the plants and animals. When the earthworm poops, the poop adds important nutrients to the soil. Our experiment proves this story!

Our gardens would not grow without earthworms. The trees in the forest would never be tall if the earthworms did not enrich the soil. So the next time you see an earthworm and feel disgusted, think about how they help the soil! When you walk in a garden, remember to look out for these small geniuses! Don't forget that their poop is truly the most amazing poop in the world!

Try this experiment out yourself!

iment!

Materials:

worms, leaves and twigs.

Plant seeds (you can use sprouts or worm poop! mustard)

Step 1: Fill your bucket with soil till it is three-fourths full. Set it aside in a safe Reminder:

Step 2: Add leaves and twigs to the day. You can also keep feeding bucket and mix them with the soil.

You don't have to believe what I say! bucket. Place them just under the surface of the soil.

Step 3: Sprinkle the soil with a tum-Do Your Very Own Earthworm Experbler of water. Use your judgement! If you flood the bucket, your earthworms will drown. If you don't add enough water, they will dry out!

Bucket, tumbler, soil, water, earth- Step 4: Wait and watch! In a few days, you might see your own towers of

> Step 5: Once your earthworms are active, add some plant seeds to the bucket and watch them flourish!

You should water your bucket every

your earthworms with leaves. They Step 3: Add the earthworms to the are your pets now so look after them!



Height of a worm tower in a forest, PHOTO: SARAH JOHNSON

clearly with a marker pen. To earthworm poop! Now kids, colourful chemical liquids Acid is really harmful and vitamin and calcium that huthat gurgled and burbled plants cannot live healthily in mans eat to make us away vigorously.

lar soil had a much higher pH phosphorous and good bacte-

each test tube, we added let me tell you something. soil that is too acidic.

down, we used litmus paper first experiment that we did a without quarrelling that to measure the pH of the so-few more! We found that the earthworm poop was very lution in each test tube. To our earthworm poop was very good for the soil. surprise, we found that regurich in nutrients like nitrogen,

we labelled each test tube and was more acidic than ria. These nutrients help plants grow.

They are similar to healthy. So from our experi-Once the potions had settled We were so excited with our ments, we could conclude

> (The series is co-ordinated by Kalpavriksh.)

Bangalore