

Group project: Ant Hills

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*How does the type of soil
affect ant hills ?*

Project Overview

WE PUT DIFFERENT TYPES OF SOILS IN SIX JARS THEN WE WAITED UNTIL THE THIRD DAY AFTER TO LOOK AT OUR EXPERIMENT.

Research

- We wanted to know how ants lived so we put the ants inside six jars to see what they would do, Three days after we began to notice some tunnels and little holes.
- We search on youtube how ants make their homes, in all the videos ants were working together in groups to make their home, It seen to be thousands of them.
- We put some ants in jars to see if they made tunnels, we used different types of soils we also used two bottles of sand but we got a surprise, most of the ants that were in the sand died.

HYPOTHESIS : OUR HYPOTHESIS IS THAT ANTS
USE FOREST AND DEEP SOIL AND ALSO THAT
ANTS LIVED IN THE SAME TYPE OF SOIL AS
PLANTS BECAUSE THE DIRT CAN KEEP THE WATER
FROM DRYING OUT FAST.

VARIABLES

CONTROLLED VARIABLES: Amount of soil, amount of water, amount of food, temperature, number of ants.

INDEPENDENT VARIABLE: Type of soil

DEPENDENT VARIABLES: The type of soil that made effect like plants started growing and the little tunnels the ants made.

Materials:

-Six Jars

-Dirt

-Sand

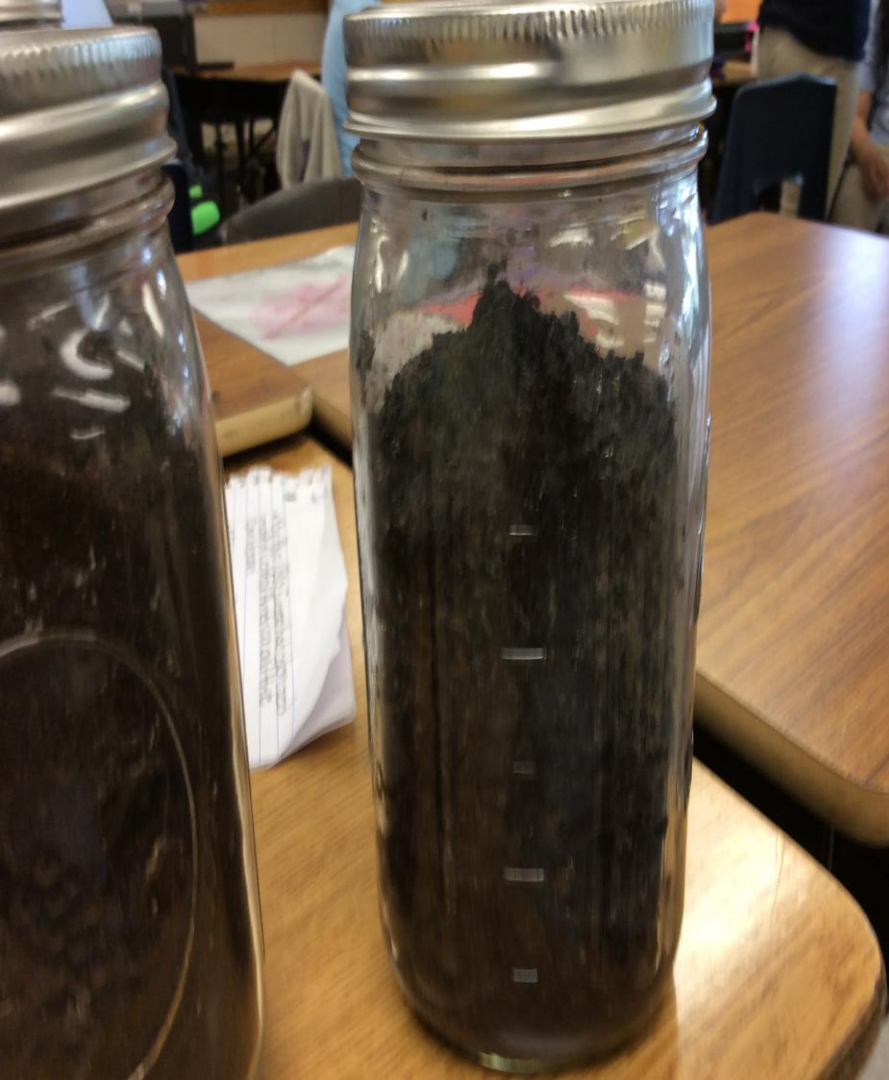
-ants



WE PUT THE ANTS INSIDE THE SIX JARS AND THEN WE TOOK A LOOK AT THEM IN THE THIRD DAY AFTER, WE BEGAN TO NOTICE THAT THE ANTS MADE LITTLE TUNNELS AND LITTLE HOLES IN THE DIRT AND SAND, NOW WE ARE ALMOST SURE THAT ANTS WERE THE ANIMALS THAT DIG THE HOLE THAT WE FOUND.



MOST OF THE ANTS THAT WE PUT IN THE SAND DIED, WE THINK IT'S BECAUSE THEY ARE NOT USE TO THIS SOIL AND BECAUSE THE SAND ABSORBS THE WATER VERY FAST SO THE ANTS DON'T HAVE WATER SO THEY DIED.



IN THIS TYPE OF SOIL WE HAD DIFFERENT RESULTS, THE ANTS MADE TUNNELS AND HOLES BUT THEY DIDN'T DIED, ACTUALLY AS YOU CAN SEE IN THE PICTURE THEY MADE A HILL BUT ONLY IN THE JARS WITH DIRT.

THE PICTURE OF THE HOLE.



OBSERVATIONS ☀️

- It has the shape of a volcano.
- It has grass and plants around it.
- We think that the hole might be deep.
- We think that ants live there or another type of animal.

OUR CONCLUSION IS THAT ANTS CANNOT BUILD THEIR HILLS IN EVERY TYPE SOILS ONLY IN THE TYPE OF SOIL THAT PLANT USED BECAUSE OTHER TYPES OF SOILS CAN ABSORB THE WATER VERY FAST SO WITHOUT WATER ANTS DIED, WE WERE ALSO WONDERING HOW THE ANT HILLS LOOK LIKE INSIDE BUT NOW WITH THIS EXPERIMENT WE HAVE AN IDEA.

Work Cited

This are the Websites we to do our research:

1. YouTube
2. Wikipedia
3. Google

We will like to thank all the Smithsonian scientist that help all of the groups with our materials, We also like to thank to Mr.Davis for always being there to help,Mr.Williams help us a lot with the feedback and for telling us which would be the best way to do our project.