Stem Project

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Quesions?

What type of soil determines the depth of the ants tunnels?
Hypothesis?

The soil will not determine the depth of the ant tunnel.
Variables

Independent variable: The soil

Dependent Variable: We will observe the depth of the ants tunnel

Controlled Variable: We will not change the ants
Materials

1. Rulers
2. Ants
3. Soil
4. Jar
Procedure

1. Gather all materials.

2. Put some topsoil and deep soil in a jar.

3. Put ant the ants in separate jars.

4. Measure how deep the ants can build a tunnel.
Conclusion

The soil did not affect the depth of the ant tunnel. All the tunnel have depth 0.5 or more. In about 2 days are ants started to build their tunnel. A couple days later are ants had a larger tunnel. We had noticed that the ants were trying to escape the jar. The ants were going crazy in the jar some was building a tunnel and some were just focusing on escaping one of our ants escaped out of the hole.
Data graph

Depth in the unit tunnel

Top Soil

0.9 Sand

Deep Soil 0.10
Works cited

Pestworldforkids.org
Data/Observation

The ants in the topsoil have a bigger tunnel than the ants in the other tunnel.

Some ants in the containers are dead in the tunnels.
Statement of the problem

We were outside and we saw some ants building a tunnel and we all decided to do what type of soil determines the depth of ants tunnels
So at first we had got are containers from Dr. Cawood and we put are three different soils and then put are ants in the jar. A couple days later our ants building started to build their tunnels.
Question for further research?

Which soil will have a larger depth than the other 2 soils?
Pictures