

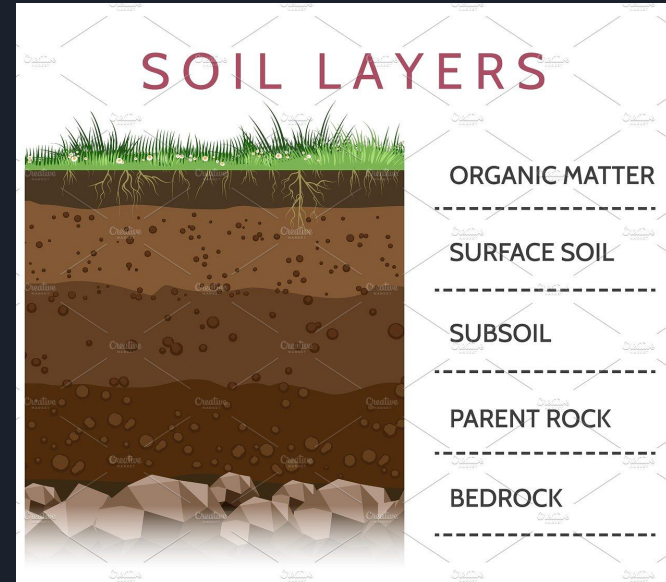


PGC Day 16: Soil

Team: Forces of Nature
Ryan Rahman, Davesh Valagolam, Steve George
Jericho High School
forcesofnaturejericho@gmail.com

What is soil?

Soil is a natural medium for the growth of plants on land and it's composed of organic matter (living organisms or things from organisms) and minerals. Soil has many layers where the top layer is the organic matter and then more rocks are present going down the layers.



Major Environmental Issues



As you know climate change or global warming is one of the biggest environmental issues or issues in general we face today, and it could lead to a rise in sea levels. Global warming is mainly caused from carbon dioxide emissions from cars, the burning of fossil fuels, agriculture, etc.



How is soil linked to climate change?

Even though agriculture is a cause of climate change it could become actually be a potential solution. This solution is called regenerative organic agriculture and healthy soil plays a big role in this solution.





What are the positive effects of healthy soil?

- Sequesters carbon dioxide lowering the rate of global warming
- Better for the plants being grown and the environment since there are no chemicals
- Our food is more safe due to the healthy soil and most of our food comes from the soil

How do you have regenerative organic agriculture?

- Chemicals or pesticides shouldn't be used at all
- Have a diverse rotation of crops to decrease of effect of pests and weeds
- Use fertility-building to protect crops and soil
- All animals should be treated with care
- Do not till the soil since it disrupts the soil and ruins the structure





Sources

- https://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/edu/?cid=nrcs142p2_054280
- <https://www.drbronner.com/all-one-blog/2018/03/heal-soil-heal-planet/>
- <http://rodaleinstitute.org/regenerative-organic-agriculture-and-climate-change/>
- <https://www.centerforfoodsafety.org/blog/4932/connecting-the-dots-on-ag-and-climate-change>