# P6C Day 11, Soil -6reener

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## Reflection

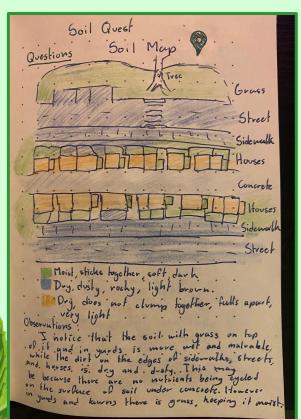
The aspects of regenerative agriculture that I can apply locally is starting a home compost bin and maybe even expanding to a community compost in order to feed the soil some more diverse nutrients. I could also plant cover crops like legumes and clovers within my own yard and cover the soil in straw or wood chips to retain moisture and provide a slow release of carbon into the soil.

My three interesting findings:

- Healthy soil consists of millions of bacteria that we can't see which are the most vital part of the cycle.
- Carbon is stored in plant roots and 40% of it leaks out into the soil which feeds the microorganisms.
- Pockets of air in the soil created from organic matter allow plant roots and microorganisms to move through it. The pockets also allow the soil to absorb water which is why more compacted soil has water runoff.

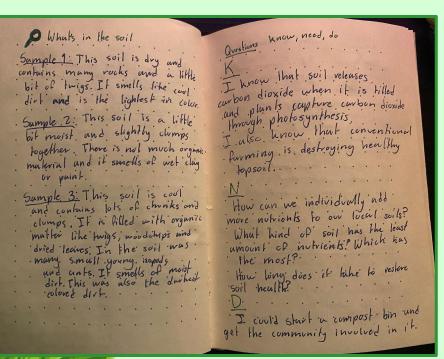


### My Hero Journal



Peching under the plants .... Sample 1: The soil sticks together easily. This was soil guthered from underneath grass. I notice that there are many ants running up the bush. The suil is cool and smells. Sample 2: The soil fulls apart. . . . I wonder why lots of grass . . grows here but not many other plants. quickly and has no chance of clumping. This was sail genthered from a bare part in my yard. when soil sticks together when wet, it menns it is . It reminds me of the soil in my yard underneath my grass. · move effective at retaining .. moistive being more boneficial. for plants that need buts of winter. The bive soil with no plants 15 very dry and dues. not clump. m Soil in water. together at all. It's dusty and. . crumbly. There are patches . After mixing some soil from my side yard with water, a of this dry soil within the moist and sufficient like soil. lut of if selled to the bottom · under bushes and plants.. their there was a layer of . The soil underneath plants seem. ... water then some more soil to hold moisture a lot more above that. I believe the looser to the kep, does that mean it does not absorb maker well?

### My Hero Journal





#### My Hero Journal

Filled with binterin . Dry
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Soil & Almosphere In healthy soil, there would he lots of cycling between carbon and a large of it sequestered in the soil from dead organisms & organic material.

In unhealthy soil, there would be a lot less curpon · sequestrution and a lat more curbon release. hum the Hilling. Carbon Release: Carbon is moved out of the soil and roots of plants but into the atmosphere Curbon sequestration: Carbon is stored in the soil from dead organisms and decomposing organic multir as well as being cuptured from the atmosphere through photosynthesis.

Soil & Climate · When there is too much carbon release without enough enough carbon seaves traction, the combon in the atmosphere increases · Carbon sequestration mostly huppens within healthy soils. · Both diagrams describe how the soil intuhes carbon and . releuses .it. . . . . . . . . : In 'heulthy' soil; water is ... easily absorbed but in unhealthy soil, it is too compact to absorb water, making it ronoff and. . Causing erosich. . . . . .

## Instagram Post

https://www.instagram.com/p/CySbo\_TuZno/?igshid=M3RloDBiNWFIZA==



