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School: Liger Leadership Academy

Key takeaways from articles:

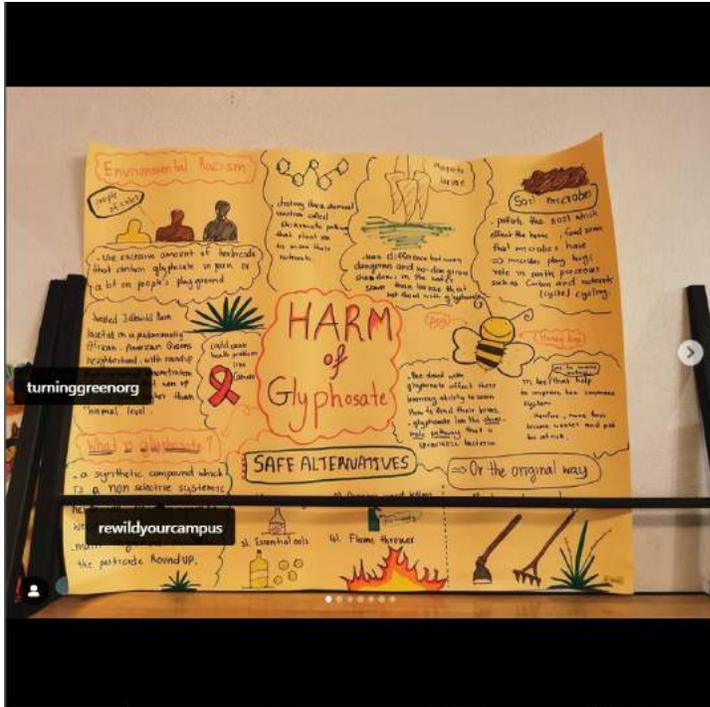
- **Glyphosate:** main ingredient in the pesticide Roundup
 - may impact the metabolism, growth and reproduction of aquatic creatures and could be altering the essential gut bacteria of animals such as bees.
 - Glyphosate destroy block chemical reaction called shikimate that plant use to make their nutrients
 - Mosquito larvae dosed with glyphosate learned the difference between dangerous and no-dangerous shadows in the water slower than larvae not dosed with glyphosate
 - Mosquito larvae are important for sources for many bird, fish, amphibians species
 - Bees dosed with glyphosate affect their learning and increase how much time it takes the them to find their hives
 - Impact long-term consequences for colony health
 - Adjuvants: may be more toxic than the glyphosate but the studies on the effect of adjuvants in the wildlife are lacking
 - Microbiomes of animals and soils is the targets of glyphosate toxicity
 - Bacteria and fungi
 - Honey bees: specialized bacteria that help honey bees gut lose the shikimate pathway so their immune system get weaker
 - Gut bacteria
 - May bacteria and fungi in the soil are sensitive to glyphosate
 - Soil microbes: huge role in earth processes such as carbon and nutrient cycling
- **Disproportionate amount of glyphosate in NYC communities of color**
 - Environmental racism
 - Causing health problem like Cancer
 - The public parks and zoos and playgrounds that low- and moderate-income people use – and especially people of color – they're killing us,
- **Safe alternatives:** these alternatives are really safe to use; both for humans and the organisms.
 - [By Gardening Know how](#): Vinegar, organic weed killers, essential oils, flame thrower
 - Mechanical weeding - My dad and I used this all the time!

After I finished designing my poster, I put the poster in different places around my school such as my apartment, public study studio and post on instagram. I also did share the information with my friends and they were really surprised especially on the environmental racism idea. It was really fun learning about all of this information on glyphosate.



At My apartment and at the public study studio





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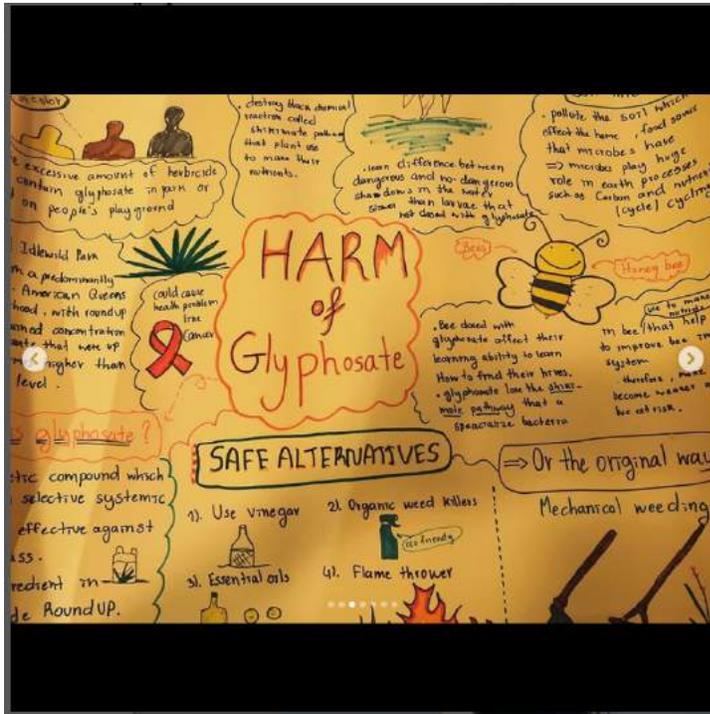
trioecowizards_pgc22 It is really surprising that there is so much research on harmful effects of using herbicides that contain glyphosate, but yet their company still said that they are safe to use. I really enjoy studying this, but at the same time, it is heartbreaking to see all of the harmful effects that plants, animals and bacteria receive. Moreover, it's really hurt to hear about people using herbicides that contain glyphosate in the park around the color of people's neighborhoods where the concentration of glyphosate is higher than the normal level 100 times! About environmental racism, I can't really do much but to help spread words about this unfair treatment to my peers and family so they are informed.

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