

Hydroponics

A man in a green and white plaid shirt is working in a hydroponic system. He is leaning over a white tray filled with green chives, adjusting them. In the foreground, there is another tray filled with vibrant green lettuce. The system is housed in a transparent enclosure, and other similar trays are visible in the background. A white electrical outlet with a plug is visible on the side of the enclosure.

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What is Hydroponics?

- Hydroponics is a type of agriculture method of growing plants, usually crops without using soil by using [mineral nutrient solutions](#) in an [aqueous solvent](#)(water) . This method works as roots are exposed to mineral content dissolved in the water, this makes growing crops not only faster but more efficient.
- What are the benefits of Hydroponics? hydroponic plants produce a greater yield of fruits and vegetables because in a hydroponic system plants are more densely spaced together compared to the size of land that would be needed to grow the same number of plants





MY MODEL

Materials

Cardboard

Color paper a4

2 trays

Glue gun

Water pump

Battery

plant

Process

- Create 2 columns using cardboard and decorate it with the a4 paper then attach the trays supported by these cardboard columns and in one tray place water decorated by artificial animals and a water pump connected to this section then connect it to the other tray compromising our main plant section and add the dc motor and battery

Bibliography

- A crucial element in this process of learning and project was the sites I used to understand the topic and help me make my project, here are some sites used.
- Video:
[HTTPS://www.youtube.com/watch?v=B_rgZy6M6Tg](https://www.youtube.com/watch?v=B_rgZy6M6Tg)
- Resources:
[HTTPS://ezgrogarden.com/hydroponics/why-use-hydroponics/](https://ezgrogarden.com/hydroponics/why-use-hydroponics/)
- Learning: <https://en.wikipedia.org/wiki/Hydroponics#:~:text=Hydroponics%20is%20a%20type%20of,solutions%20in%20an%20aqueous%20solvent.>

