

WHY SHOULD YOU START YOUR OWN GARDEN?

IT IS IMPORTANT TO GROW YOUR OWN FOOD AND HERE'S WHY!

Nutrition: People all over the world need access to nutritious food. A lot of food is subject to chemicals and genetic modifications to increase productivity. Therefore, organic food & GMO-free is healthier.

One in every five families do not have enough food, according to the Food Research and Action Center.

Cost Effective: One main reason why people do not have access to food is that many people cannot afford fresh fruits and vegetable. This makes it difficult to get enough nutrients essential to good health.

HOW CAN YOU START YOUR OWN GARDEN?

1. Choose What Plants You Want in Your Garden

When you choose your plants, ask yourself these questions.

- What different types of plants are you interested in growing?
- Are these plants in the correct habitat needed to survive?
- Can you have different plants near each other?
*(This is only if you would like 1+ kinds of plants in your garden.
Ex. Mint is not recommended to be planted in an area with other plants because the mint will overtake that area and kill surrounding plants.)*
- Choose plants that are high in nutrition, such as lettuce & potatoes

2. Choose Your Size & Location

- How many plants do you want to plant?
- Can you put the desired variety of plants together?
*(This is only if you would like 1+ kinds of plants in your garden.
Ex. Carrots, peas and potatoes can be planted near each other)*
- Do you want to plant the plants in the ground, pots, or garden boxes?
- Adequate shade/sunlight & good soil

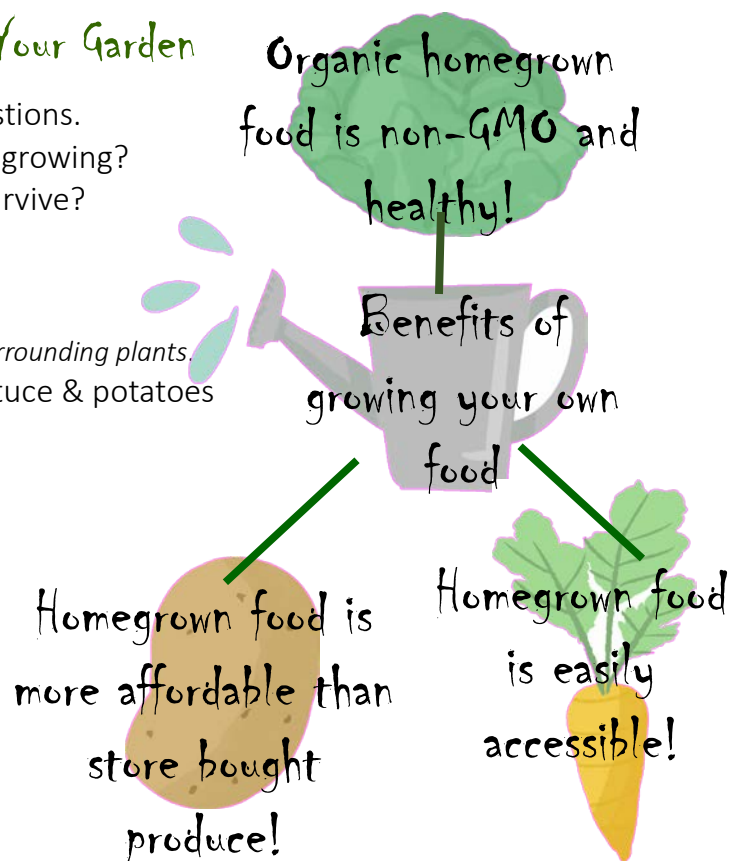
Online Resources:

<http://www.doryfitz.com/amazing-graphs-to-make-vegetable-gardener/>

<http://www.joyfulhomesteading.com/benefits-to-organic-gardening.html>

<http://www.organics.news/2017-11-16-growing-for-a-better-world-the-5-benefits-of-organic-gardening.html>

<https://www.theenvironmentalblog.org/2018/02/10-tips-for-growing-your-own-herbs/>



BUILDING YOUR GREENHOUSE

Materials

- 45-degree elbows (4)
- 90-degree elbows (2)
- 3D Joints (4)
- 1/2" PVC pipes (2) (10ft)
- Tee joints 1/2" (4)
- Multi-size Tee joints (2 - 1/2" & 3/4") (2)
- 12-gauge clear plastic (2 yards)
- Clear tape (heavy duty packaging tape)

Cost: Approximately \$25

Building Steps:

1. Cut pipes into the correct sizes as shown in the diagram.
2. Connect the correct lengths of PVC pipes together with the 3D and 2D joints per frame directions.
3. Assemble the irrigation / venting system as described below.
4. Cut out the plastic in these dimensions (1 center rectangle at 20"x72") and (2 sides at 23"x25"x12"x22").
5. Tape the plastic to itself around the structure so it's easy to take down and store.



Frame Directions:

1. Cut 2 pipes that are 22.90" each, 2 pipes that are 12" each, 2 pipes that are 21.80" each, 2 pipes that are 16.36" each, 2 pipes that are 21.95", 2 pipes that are 2" and 4 pipes that are 7.60" each.
2. Cut the 2 side pipes that are 21.95" into 3 pieces.
3. Connect the 3D joints to the 2 pipes that are 21.80" and the 16.36" into a rectangle.
4. Connect the (2) 22.90" to one end then put the (2) 12" pipes to the other.
5. Connect 2 of the 45 degrees onto the 12" tall pipes.
6. Connect 3 pieces using the Tee-Joint both sides.
7. On top, connect the 22.90" pipe to the 2" pipe using the 90 degree-joint.
8. Using the 45-degree joint close your frame.

Irrigation System:

An irrigation system can be added to the greenhouse to make watering the plants easier than having to lift the entire greenhouse. This system can also provide ventilation.

Directions to Assemble:

1. Cut the required dimensions on the PVC pipes (the center top part) (4) 7.60" pipes.

2. Drill (6) 1/8" holes at each 7.60" pipe as shown in the diagram.

3. Connect (2) of the 7.60" pipes together w/ multi-size Tee-Joint to form irrigation system.

4. Tape/close-off the outer ends of the irrigation system before connecting it to your frame so that water will not travel throughout the greenhouse structure and cause bacteria to grow.

5. Attach the pipe to the greenhouse frame at side Tee-Joints.

6. Cut a hole in plastic for the Tee-Joint to use for irrigation.

*Reminder: Make sure hole in Tee-Joint is facing upwards

