

Vertical Gardening

The Green Light Project

Vertical gardening is an alternative to traditional bed style gardening. They can be designed to fit many different spaces. Some of the benefits include:

- Better accessibility
- Less water requirements
- Less space requirements

What Do I Need to Build a Vertical Garden?

- Soil Container
- Stand
- Fasteners

Get Creative!

Common Plant Soil Depths

Carrots: 15 cm
Lettuce: 10-15 cm
Peppers: 15-25 cm
Radishes: 10 cm
Rocket: 10 cm
Basil: 15 cm
Chives: 10 cm
Fennel: 15 cm
Mint: 10-20 cm
Oregano: 10-15 cm
Marigolds: 10 cm
Violet: 10 cm

Vertical gardens allow for the cultivation of many plants, however certain designs foster certain plants better than others. It is important to choose plants that will grow well in the available soil depth of your garden.

Tire Design



Holds a lot of plants
Good for large spaces

Required Materials

- 4 long pieces of wood
- 2 medium sized pieces of wood
- 8 small pieces of wood
- 4 tires (preferably the same size)
- Nails or screws
- Water bottles (preferably 5 Litres)
- Cable ties

1. Stabilize the bottom tires by adding small pieces of wood to the bottom and sides of each tire
2. Attach first level of shelves, make sure that your bottle/container sits comfortably in between the 2 pieces of wood
3. Add second level of tires and stabilize, repeat step above
4. Add containers and fasten them to the wood by using cable ties/wire

Alternate Materials

- Any long, strong material (wood, pipe, etc)
- Water bottles can be replaced with any sort of container for soil



Crate Design

Versatile Sizing
Easy Construction

Required Materials

- 8 pieces of wood for a frame structure
- Milk crate
- Screws or nails
- Water Bottles (preferably 5-Litre)



Alternate Materials

- Anything that can be used as shelves for the bottles to sit on
 - Pipes
 - Wood
 - Old table
- Water bottles can be replaced with any container for soil

1. Make a rectangular frame out of 4 pieces of wood (2 shorter 2 longer)
2. Connect 4 legs
3. Cut the crate in half
4. Attach it to the top of the frame as shelves
5. Add containers

Gutter Design



Gutter/Pipe Design

Space Efficient
Minimal Materials



Required Materials

- 2 tall planks of wood
- Wood scraps
- A gutter (cut into pieces)
- Wire fencing
- Screws or nails
- Cable Ties

1. Connect the two long pieces of wood with the wire fencing
2. Cut holes in the top of PVC pipe
3. Connect the pipe to the wire fencing with cable ties
4. Use two smaller pieces of wood as legs to make the garden stand up

Alternate Materials

- Pipe
- Wire fencing can be replaced with poles or dowels (for vines to grow up)