

Introduction: In this project we will be making an underwater dome/base. We will teach you how to build the dome, empty it of water, and build things inside of it, such as a house and flowers. Let's get started!

Parts/Resource List: Hardware: Raspberry Pi Kit, Monitor

Software: Raspbian, Minecraft Pi Edition

Minecraft Supplies: Wooden Planks, Glass, Doors, Signs, Grass Block, Bonemeal, Glowstone

Step Number: 1

Step Title: Glass Dome

Screenshot(s):



Description of Step:

- The first thing you have to do is build a hollow glass structure underwater.
- This can be as wide or as long as you want, however it must be at least 4 blocks tall. We made ours 10x13x5 blocks.
- Make sure that this is completely sealed and that you are inside of it when it is done.
- Moving underwater might be difficult but it is just like moving on ground, but slower. You can still fly underwater by double tapping the jump button and you will want to use this ability when building.

Step Number: 2

Step Title: Building Inside of the Dome

Screenshot(s):



Description of Step:

- In this step you have to build the house and anything else you want to make in your base.
- We made the house out of wooden planks and just like the the dome, it can be as wide or as long as you want but it has to be at least 3 blocks tall. We made our house 6x7x4 blocks.
- Don't worry if your dome is still filled with water because we will cover how to get rid of it soon.

Step Number: 3

Step Title: Building the Airlock

Screenshot(s):



Description of Step:

- In this step you will build the airlock in which you will get in and out of your underwater dome from.
- It really only has to be a door in the middle of your glass wall because doors block water even when they are open.
- However, we made it a small room with two sets of doors like a real airlock. The dimensions of the room are 3x4x3 and we put two sets of double wide doors in the front and back of it.

Step Number: 4

Step Title: Getting rid of the water

Screenshot(s):



- This is the step where you get rid of all of the water in your dome.
- For this you need a type of block that blocks water, such as fences, gates, doors, or signs. We ended up using signs because you can walk through them easily in the game and can be destroyed easily.
- Once you have your block, you have to place it everywhere in your dome where you don't want water, such as in the airlock and in all of the open spaces in the dome.
- We would recommend placing the signs on each other, like we did in the picture because it will make them easier to get rid of later.

Step Number: 5

Step Title: Destroying the signs

Screenshot(s):



- In this step you will be destroying all of the signs you placed in your dome and airlock.
- First, make sure there is no water in your dome and airlock and if there is, place a sign over it to get rid of it.
- After that, destroy the signs. In order to do this quickly you will have wanted to place the signs on top of each other because if you did, you can destroy the sign that all of the others were stacked onto and this will destroy all of the ones stacked on it.
 - If you did not stack the signs, you will have to destroy each one individually.

Step Number: 6

Step Title: Finishing touches

Screenshot(s)



- This is the step in which you add any extra things that you want in your dome.
- We replaced all of the floor inside of the house with wooden planks and all of the ground in the dome that wasn't in the house with grass blocks.
- We also planted flowers on the grass, but something else must also be done to allow for plant growth.
- Because the dome is under water, the flowers or any other plant you would want to grow cannot get sunlight.
- Therefore, if you have to put glowstone on the roof to provide light for the plants.