MINECRAFT & SCIENCE INTERNATIONAL SPACE STATION
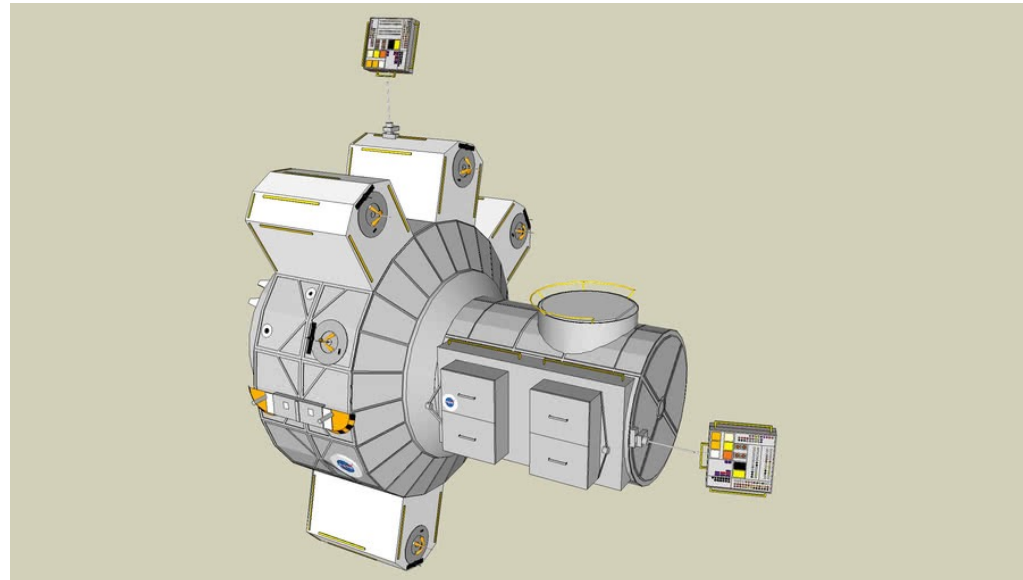
VERSION 1.0

Lesson 3

Airlock

THE AIRLOCK ON THE ISS

- What is an airlock?
  - ➤ A module that has two doors
  - ➤ Can seal against pressure
  - ➤ Allows the passage of people and objects to and from space
- The primary airlock on the ISS is called the *Quest Joint Airlock*
- It was launched on July 14, 2001
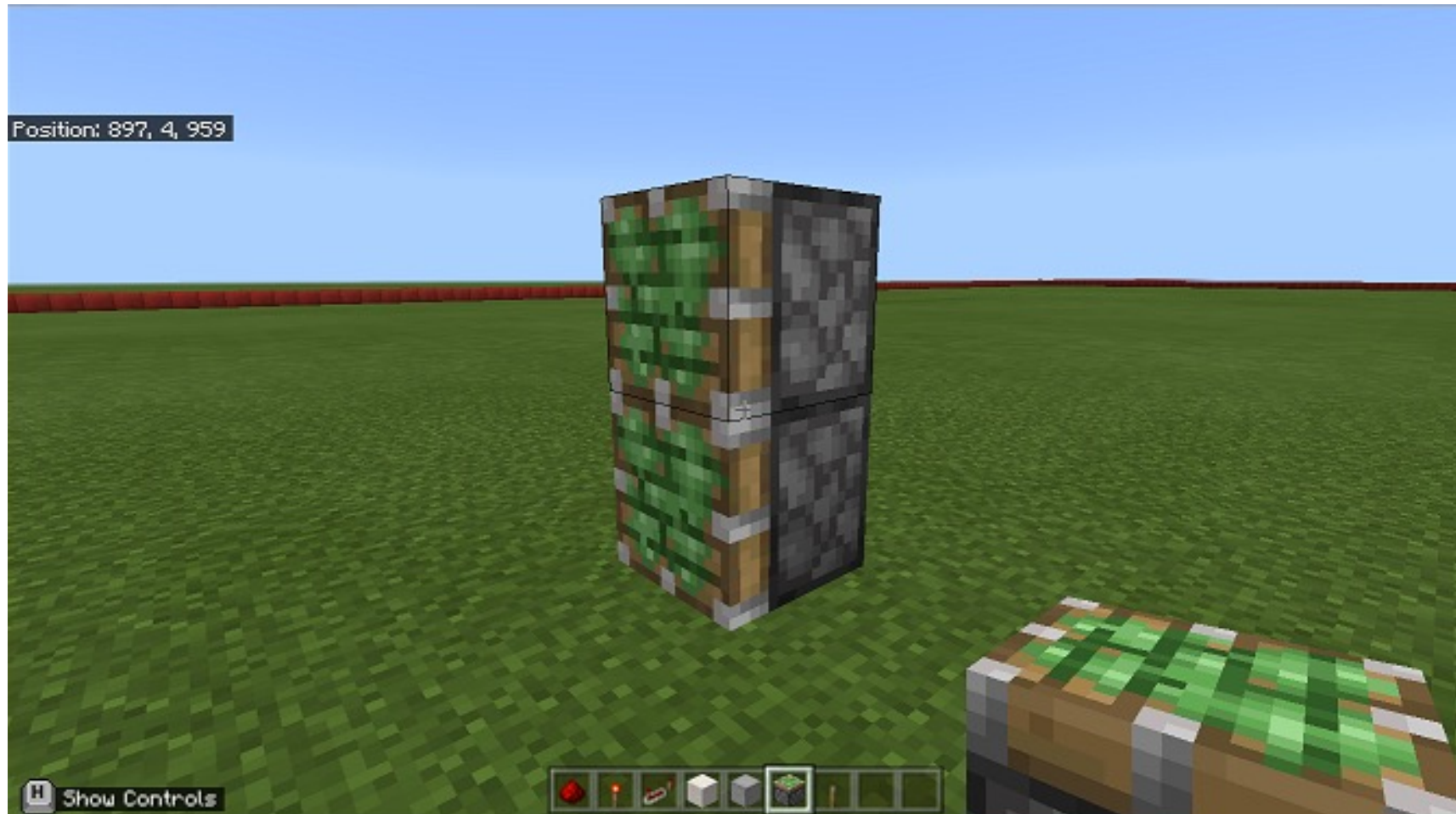
THE AIRLOCK ON THE ISS

MINECRAFT AIRLOCK

- To build an airlock we will need to use redstone
- We will need to create two separate piston doors for the airlock
- The materials needed are:
  - Lever
  - Redstone
  - Redstone Torches
  - Sticky Pistons
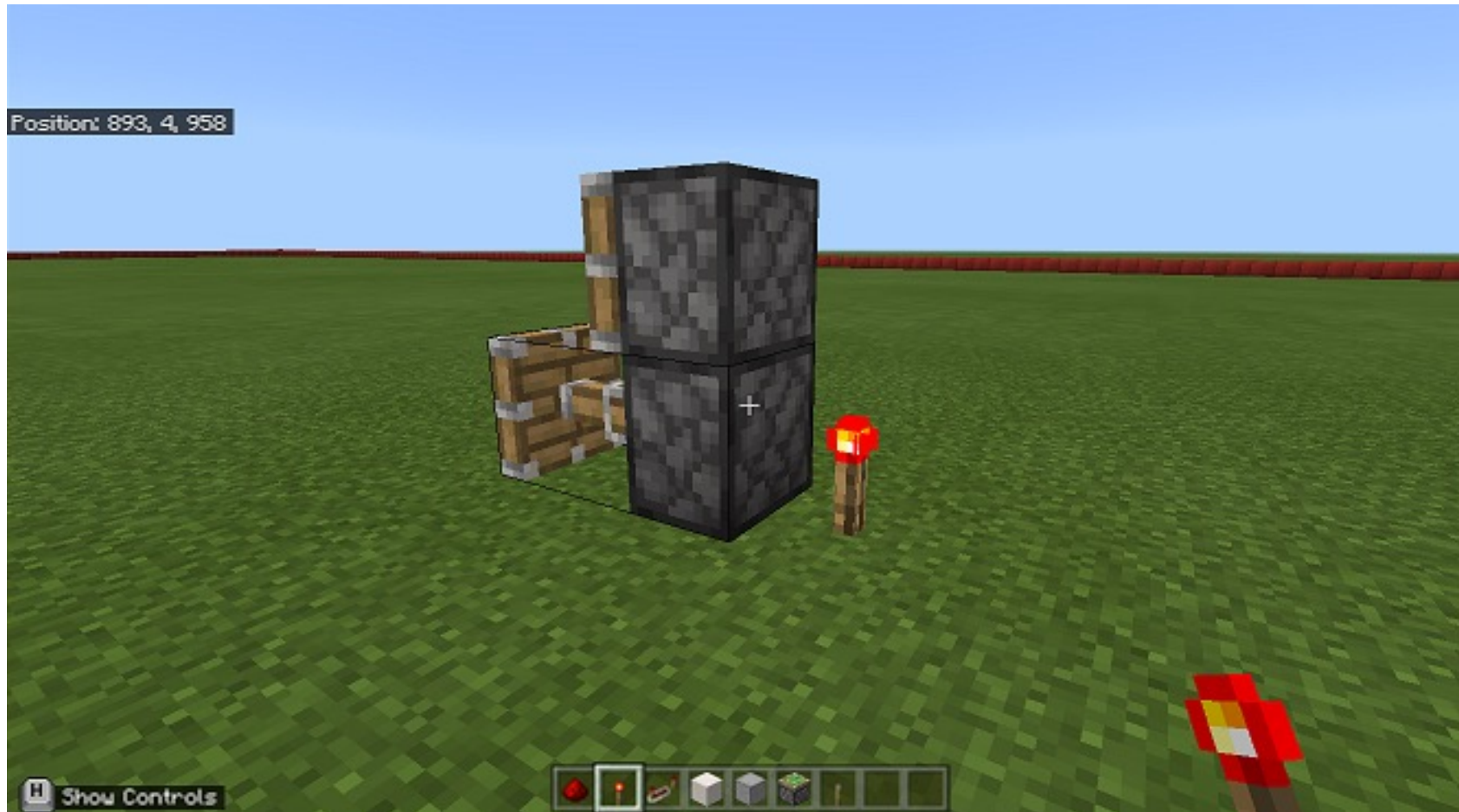 - Redstone Repeaters
  - Any two blocks

MINECRAFT AIRLOCK

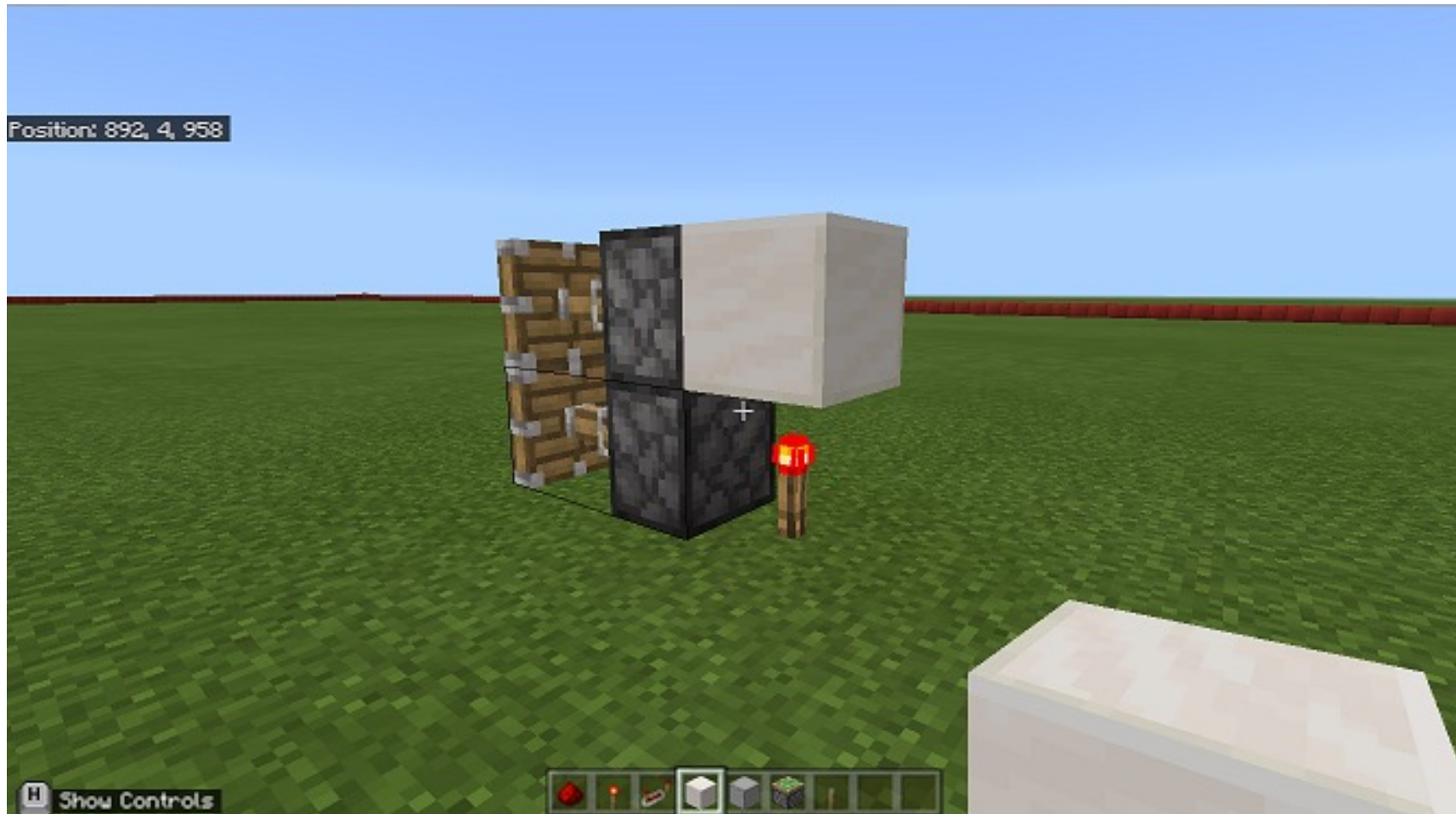1. Place two sticky piston, one on top of the other

MINECRAFT AIRLOCK

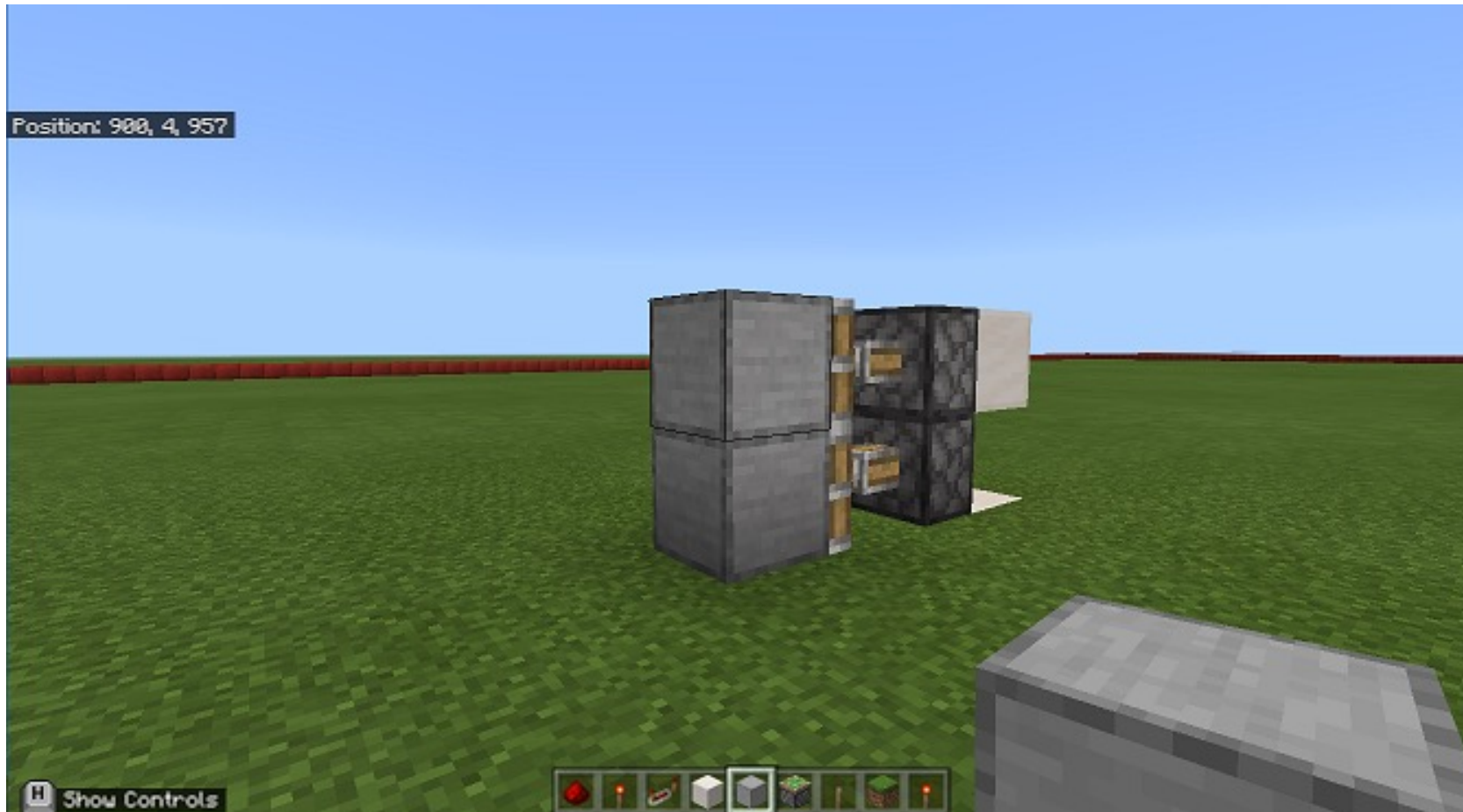2. Place a Redstone Torch behind the bottom sticky piston

MINECRAFT AIRLOCK

3. Place a block on top of the Redstone Torch

MINECRAFT AIRLOCK

4. Place two blocks on the sticky pistons to use as the door blocks

MINECRAFT AIRLOCK

5. Create a circuit from a lever to the block that is holding the torch

- This will create a *NOT Gate* and will close the door when activated

MINECRAFT AIRLOCK

6. To create a 2x2 door, mirror this model on the other side
- Connect the circuit from the same lever

MINECRAFT AIRLOCK

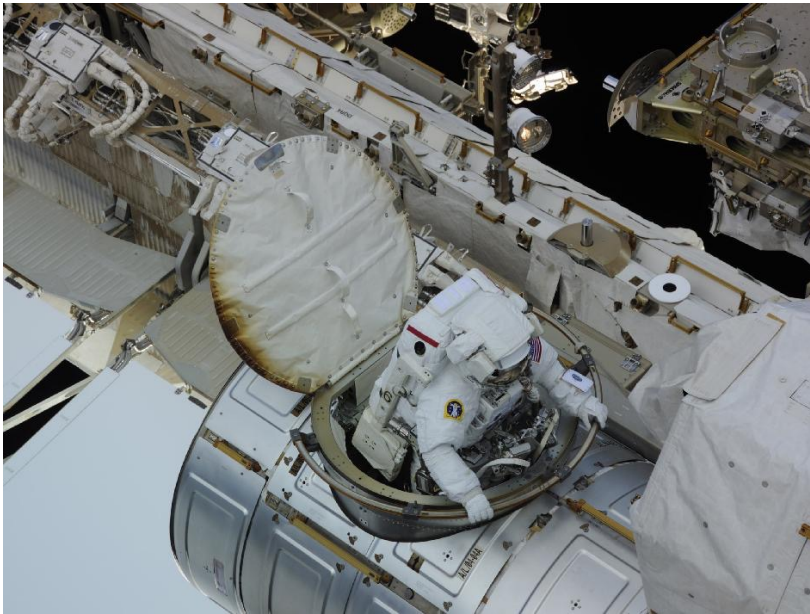7. Repeat the first 6 steps to create a second door

MINECRAFT AIRLOCK

8. Cover the redstone circuits with whichever blocks you like

STUDENT ACTIVITY – AIRLOCK

- Design and build an airlock for your space station in Minecraft.
- Use redstone wiring to create a piston door for your airlock.
- Use chalkboards to label your airlock.

END OF LESSON 3