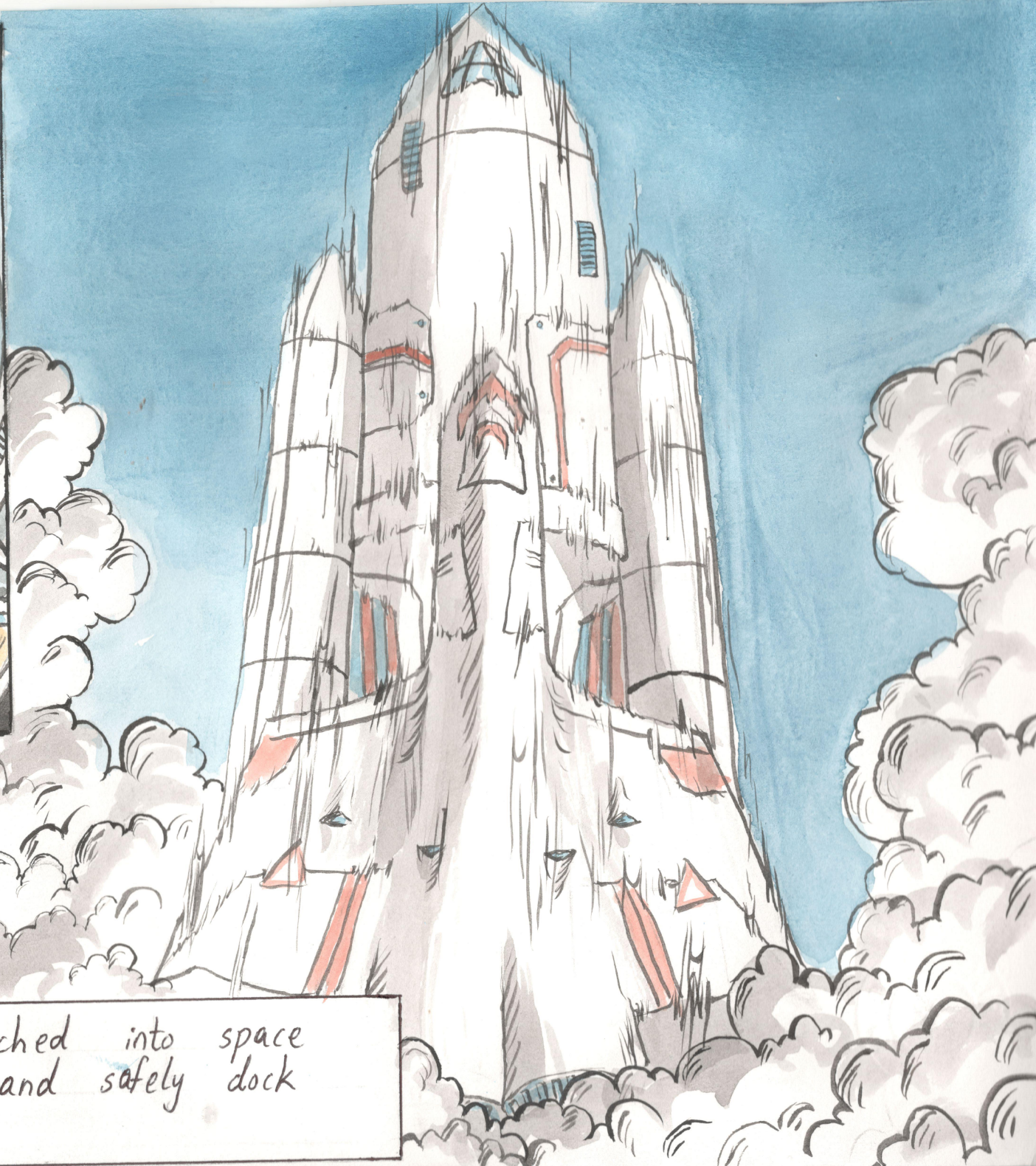
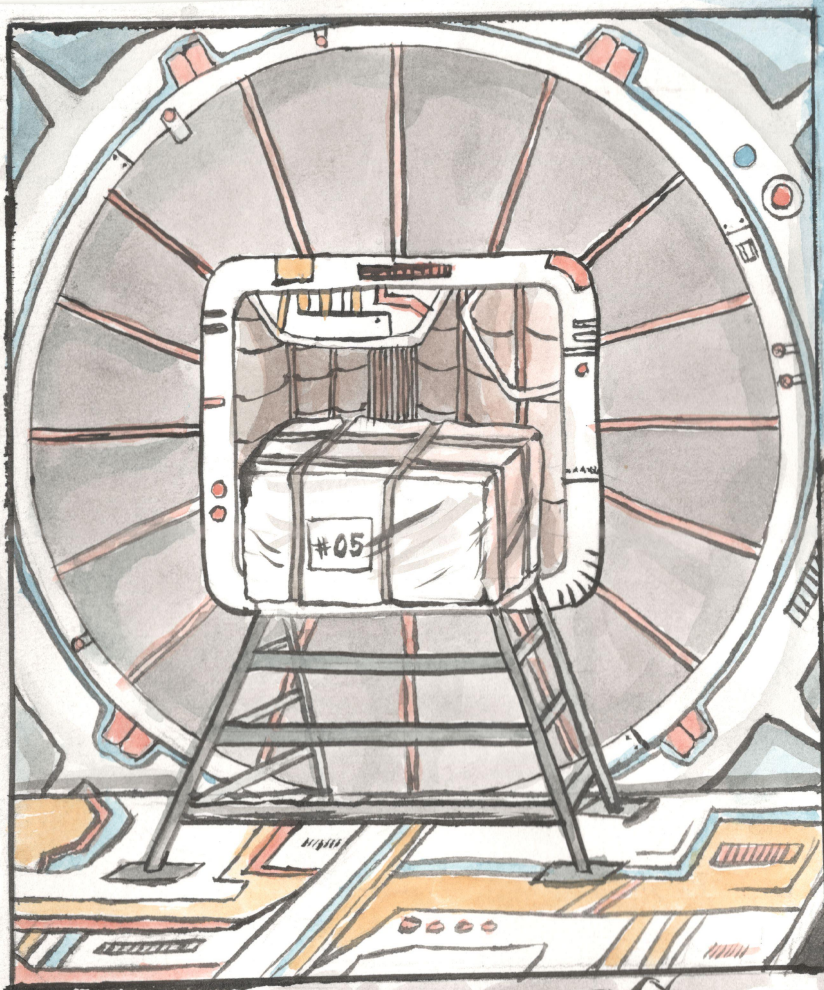




**STEP 1:** The seeds are selected and sent to the Joint FAO/IAEA, where one batch remains to be irradiated in a machine.

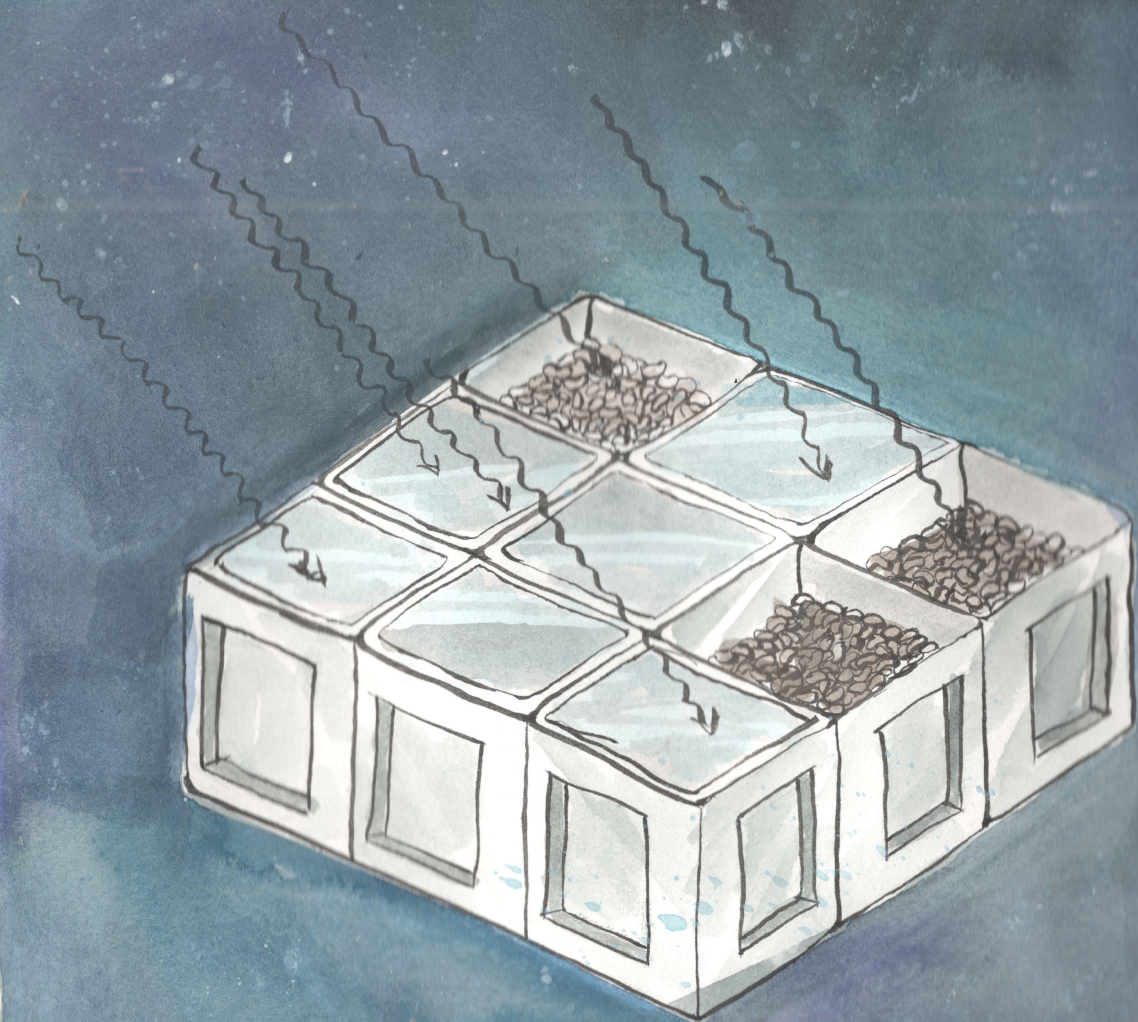
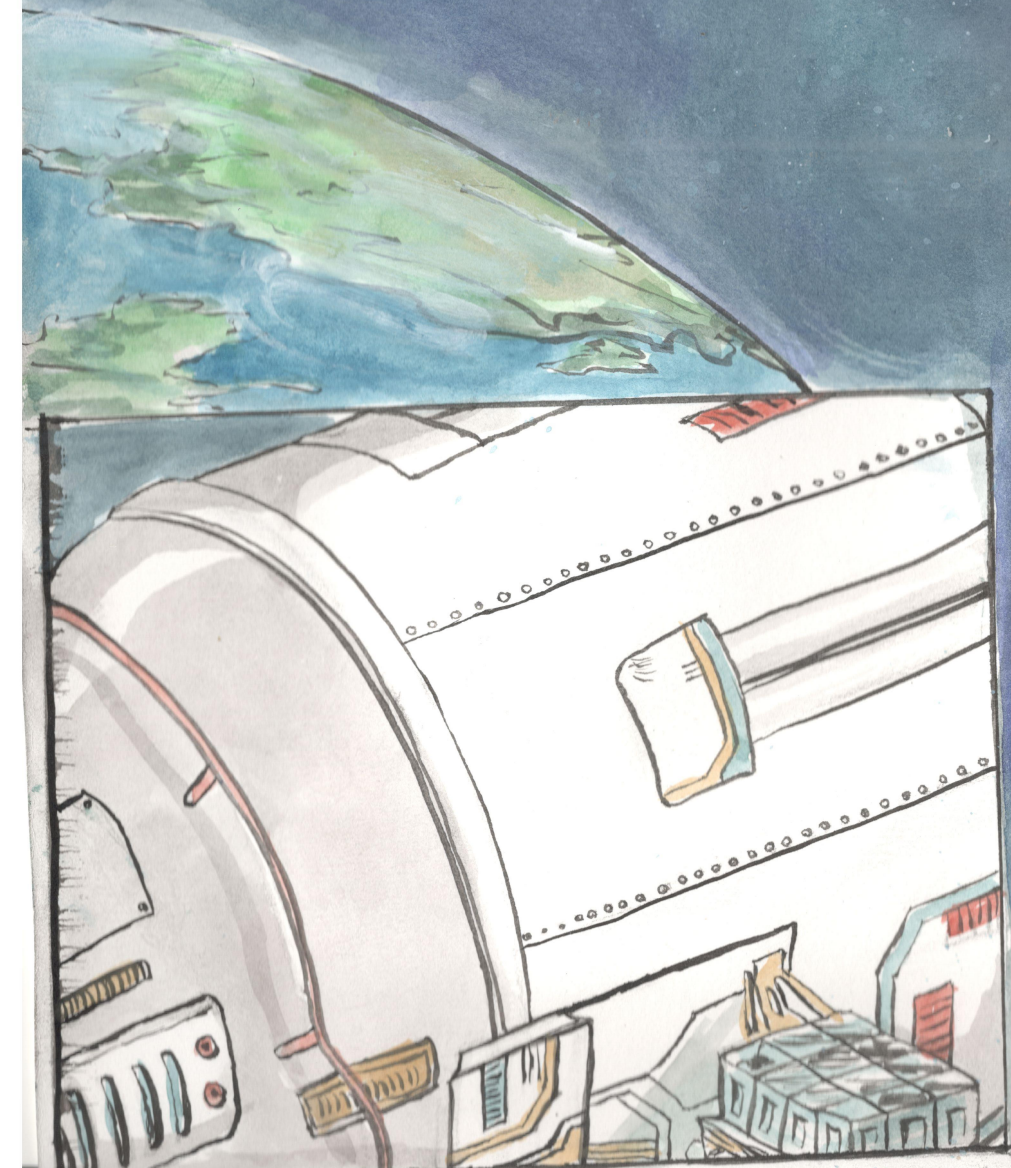




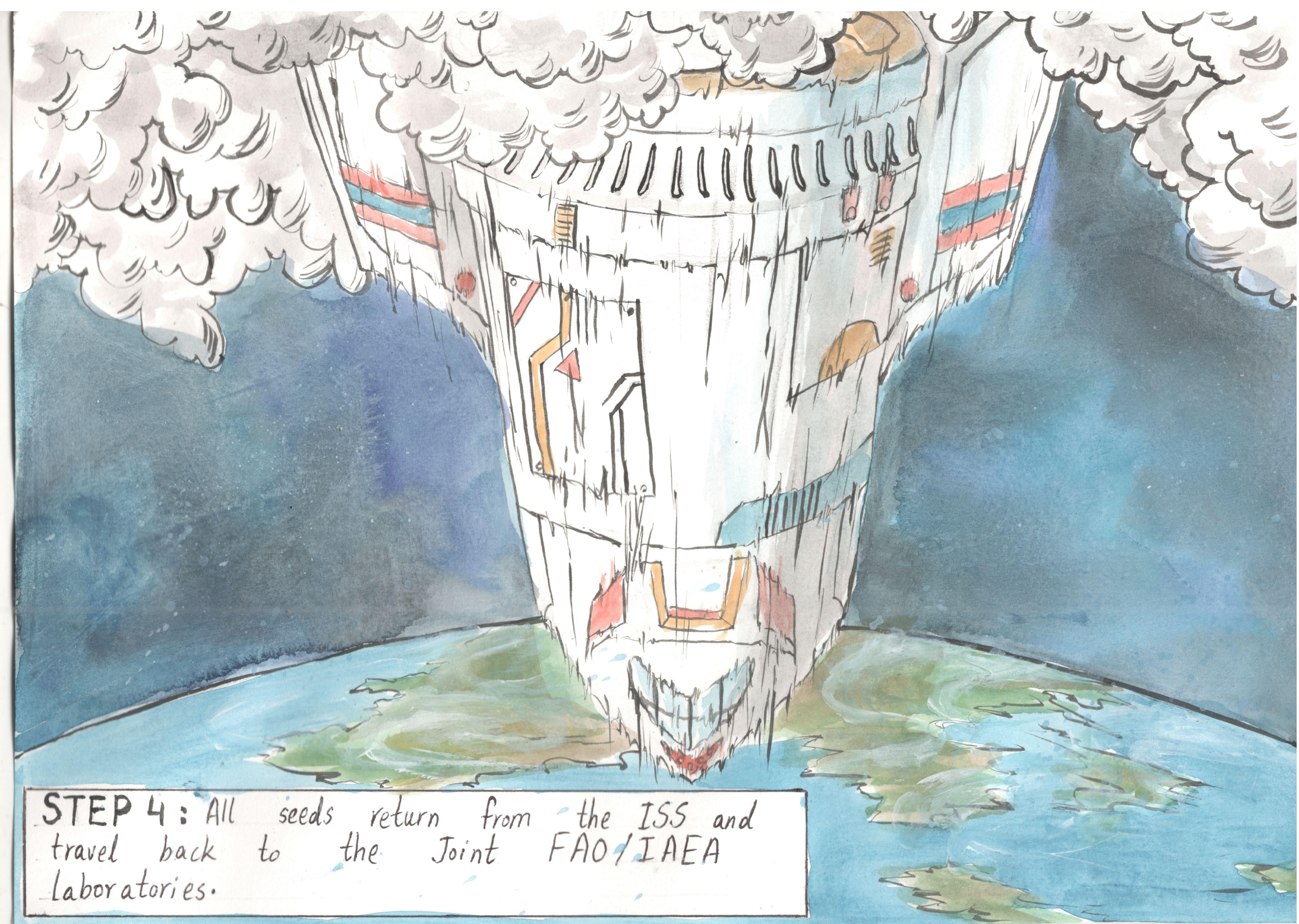
STEP 2: The seeds are launched into space aboard a space shuttle and safely dock at the ISS.



STEP 3: Half the seeds are positioned outside the ISS while half are kept inside. The prior are subjected to cosmic ray, microgravity and extreme temperature for 5 months.

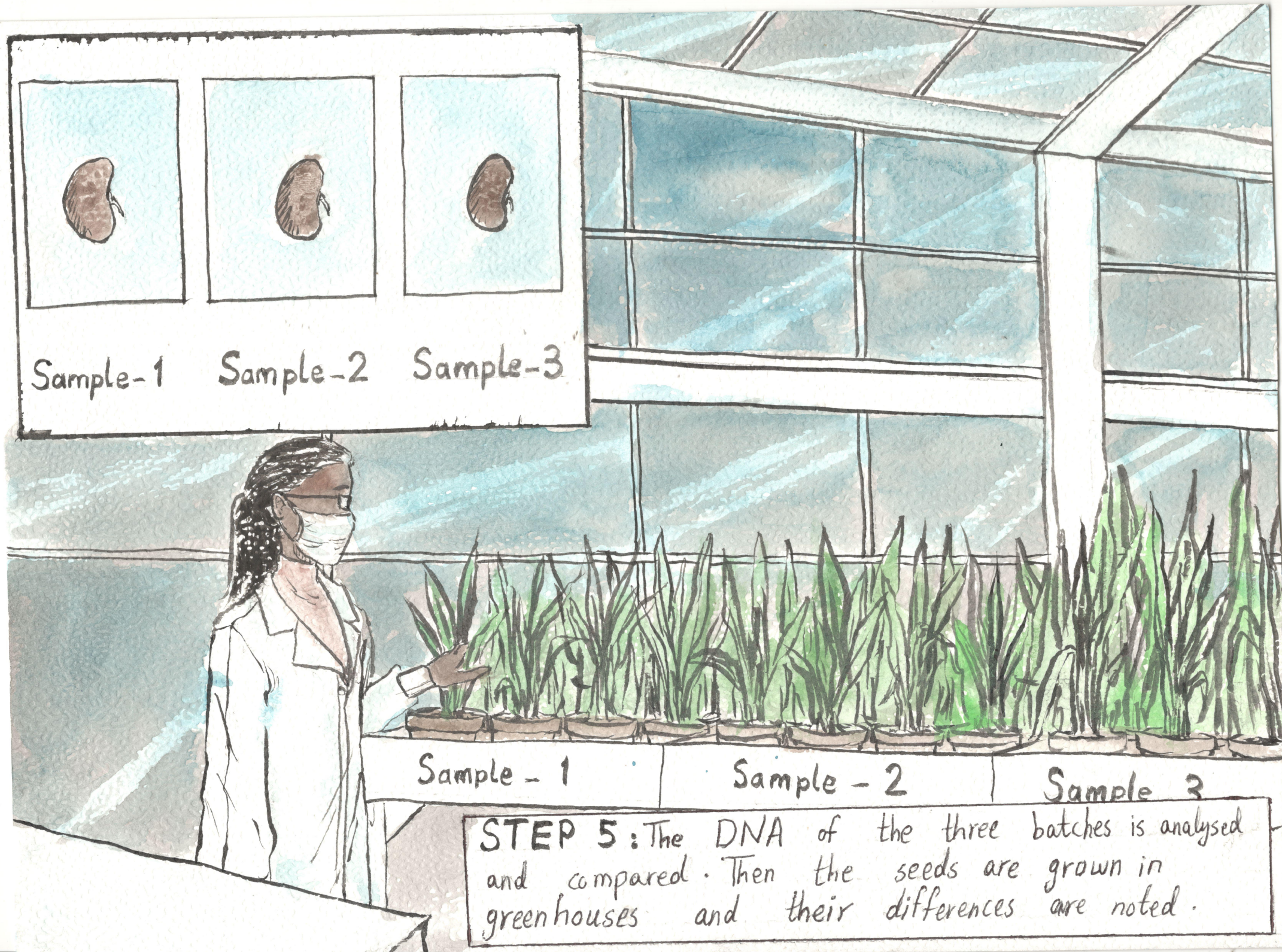






STEP 4: All seeds return from the ISS and travel back to the Joint FAO/IAEA Laboratories.





Sample-1    Sample-2    Sample-3

Sample - 1

Sample - 2

Sample 3

**STEP 5:** The DNA of the three batches is analysed and compared. Then the seeds are grown in greenhouses and their differences are noted.



**STEP 6:** The three samples are planted. Sample 3 shows the best results.



**SAMPLE-1**

The seeds irradiated on Earth.



**SAMPLE-2**

The seeds kept inside the ISS.



**SAMPLE-3**

The seeds kept outside the ISS, irradiated by cosmic rays.