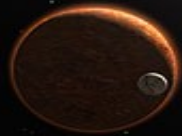


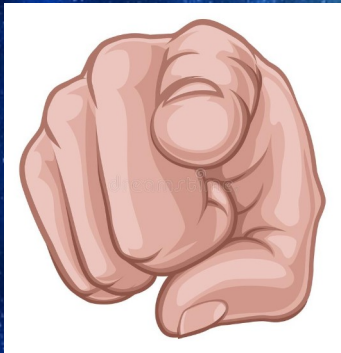
ABS100 to Proxima Centauri B



OUTER SPACE- A NEW FRONTIER

The survival of the HUMAN RACE depends on

YOU and the CREW on board.



YOUR MISSION is to:

- Decide on the design and structure of your spacecraft.
- Agree on what 30 people will need to survive for 5 years in space.
- Compare the new planet to Earth



A spacecraft with large solar panels is shown in orbit above the Earth. The Earth's surface is visible, showing continents and oceans. The spacecraft is positioned in the lower-left quadrant of the frame, with its solar panels extending towards the top and left. The Earth's horizon is visible on the right side of the frame.

Mission

This mission is to survive, Earth is no longer habitable by humans actions.

We must go to another planet and survive on the way there.

This adventure will be difficult we will face a lot of danger in the way there.

We will need to survive 5 years in a spacecraft to save human race.

We must live Earth

We need to live Earth because of the actions humans made fires , overfishing,deforestation, water contamination, making animals endangered,wars , we though trash on the floor , we made machines like cars that are destroying the



The Rocket



The Rocket is inspired in on space craft from on movie called interstellar that also uses feak gravity.

In my rocket we use feak gravity in some parts of the rocket in some parts we don't.

The rocket will be eco friendly it will be made with recycled materials.

The fuel will be hydrogen mos rocket use hydrogen as fuel.

The rocket will be tall a little bit taller than the ones now on day.

This Rocket is one of the most powerful rockets us humans have made.

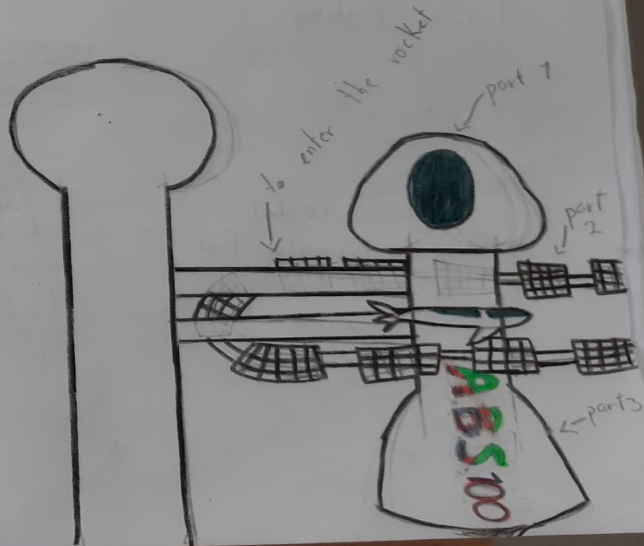
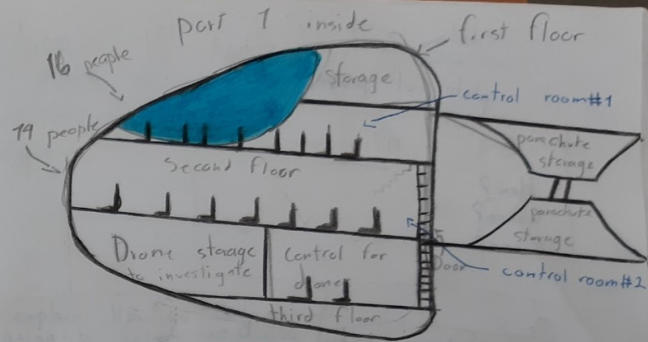
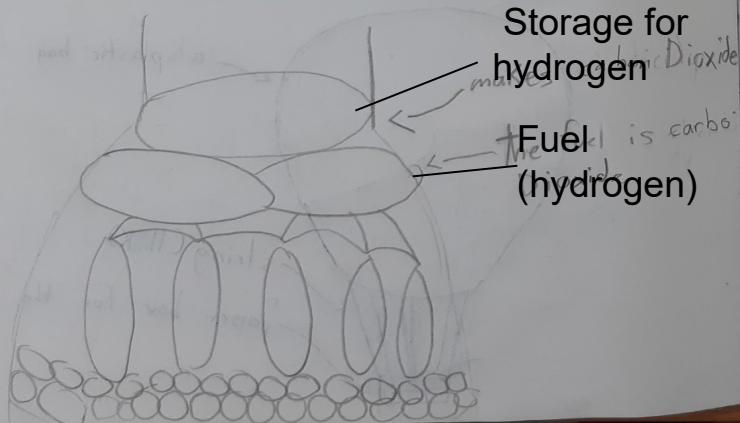
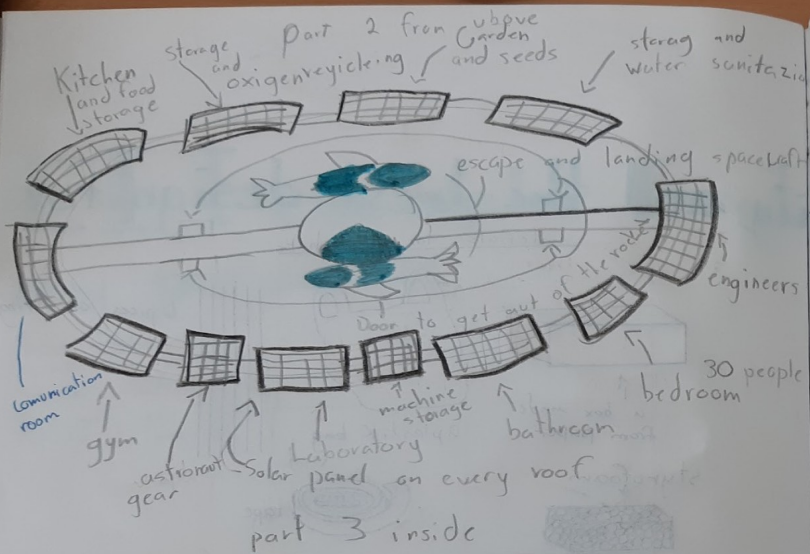
The part of my rocket

The rocket is divided in three the first part is the command area the second part is the living area and the third part is the engi.

The first part or the command area has the control room of the ship with space for the hole crew it also has the drones storage. We will be using this to explore the other planet.

The second part of the rocket has the rooms the laboratori the kitchen the contact room the bathrooms the garden the water storage the oxygen storage the food and seed and other stuff.

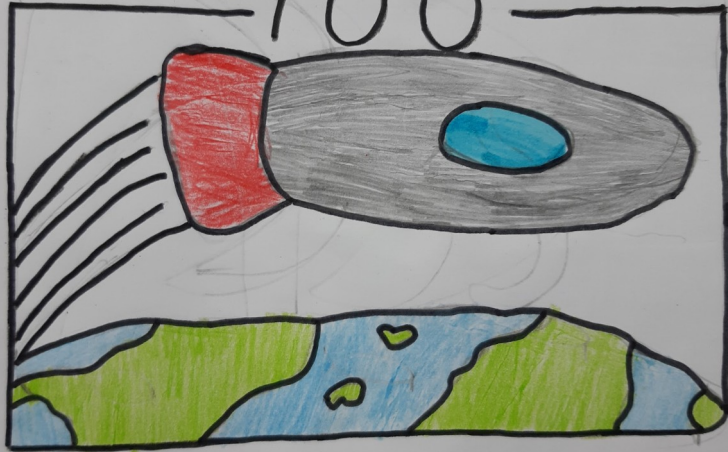
The third area in of course the engine. The engine uses hydrogen as fuel to function.



ABS 100

A B S

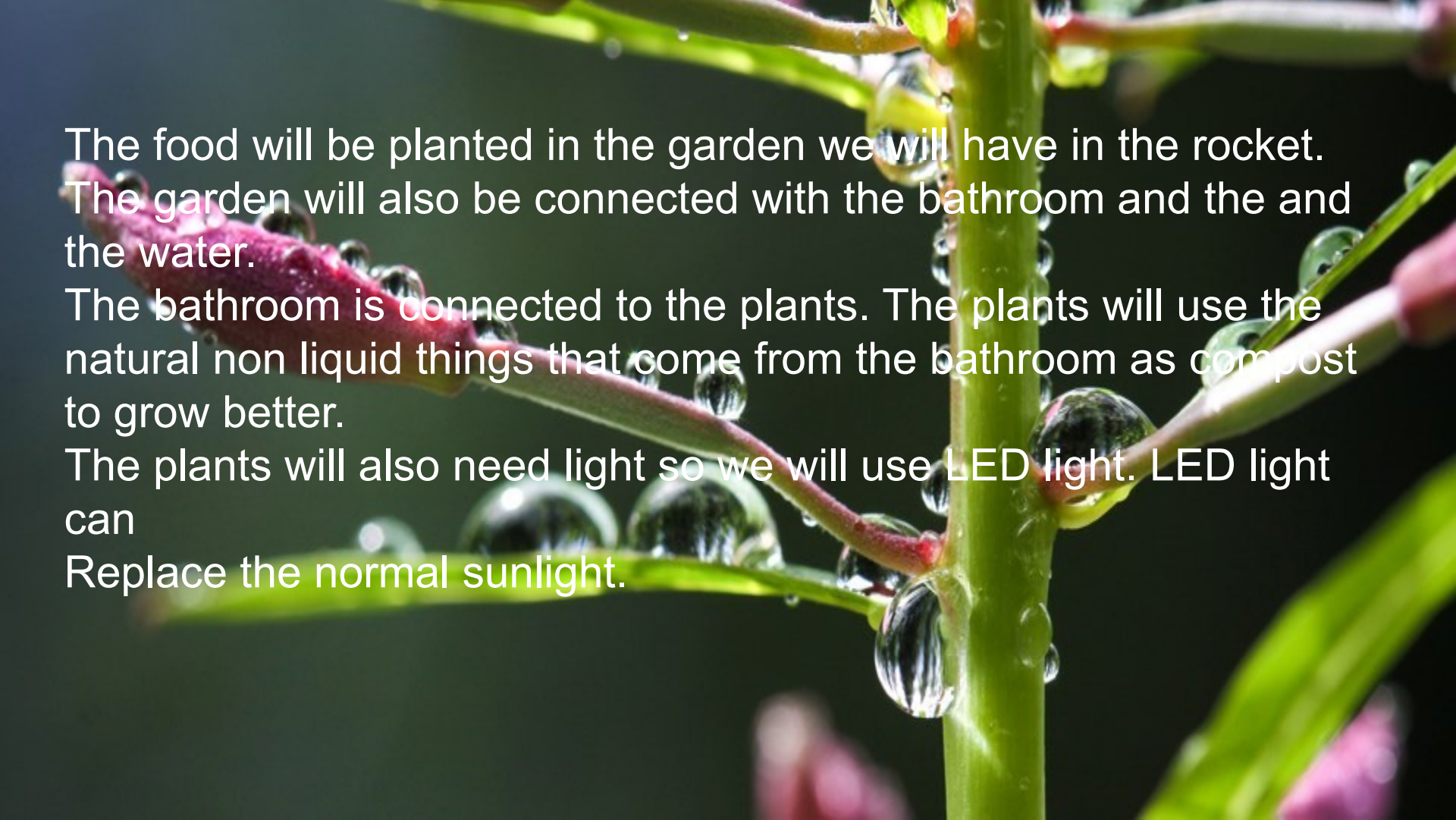
100



How are we going to survive 5 years in space?

In this rocket we will need oxygen food and water, The water will be cleaned with a water cycle machine. The machine is divided in 4 parts. The first part will heat the water at a point where it will **evaporate** then the water will go to the second part of the machine. Where the evaporation will reach cooling point (**condensation**) forming clouds. Then in the third machine **precipitation** will give place . after that forth machine The water will be separated in in four parts. This parts are the kitchen for cooking the bathroom for hygiene the garden for the plants and drinking.the leftover water will go to a water storage tank.

The oxygen will be connected with the garden we will have in space but will also be connected with a oxygen purification system. The oxygen will first go through a part of the garden were we will have some of the best air purification plants that nasa has found, after the air will go to a oxygen purification system that will clean the water a 100% but the air will only go through the purification system because we want to make sure it is clean. The oxygen will be connected to every room. A system in the ventilation that will collect the carbon dioxide to the beginning of the cycle all over again.



The food will be planted in the garden we will have in the rocket.
The garden will also be connected with the bathroom and the and
the water.
The bathroom is connected to the plants. The plants will use the
natural non liquid things that come from the bathroom as compost
to grow better.
The plants will also need light so we will use LED light. LED light
can
Replace the normal sunlight.

The new planet

The planet is called Proxima Centauri B

This planet is far it is 4.24 light years away.

A light year is not time but kilometres.

A light year is about 9,460,800,000,000 km/yr.

So my chosen planet is 3,988,483,200,000 km away so I would have to travel 802,275,840,000,000 km/hr

To get there in 4.24 light years .

My planet also has gravity an example in Earth you could jump 1 meter in Proxima Centauri B you could jump 1.17 meters it is a very small difference.

Proxima Centauri B is also very cold it is - 39 C the good thing is that we can survive there because in Earth the coldest place is -89C and people live there.

This planet has a bigger mass than Earth because Earth's mass is 5,973,600,000,000,000,000,000,000 kg or 5.9 kg and the mass from Proxima Centauri B is 7,586,472,000,000,000,000,000,000 kg or 7.5 kg.

Similarities between both planets

Proxima Centauri b has a very small difference in gravity with Earth.

In Earth in our atmosphere we have carbon dioxide. In proxima Centauri b there is a 10% of having carbon dioxide in his atmosphere.

The planets have a very similar mass. Proxima Centauri b's mass is 1.27 of Earth's mass

Jobs in ABS 100

The jobs in the rocket are very important because every job has a different responsibility here are some of the jobs we will have in the rocket: Botanists, Mission Commander, Astronauts, Doctors, Electrical Engineers, Mechanical Engineers, Terraforming Engineers, Cooks, Architects, Maintenance Personnel, Pilots, co Pilots, Software Engineers, Document Controllers, Space Engineers and Project Controller.



Problems may happen on the mission

One of the problems is that the crew had a fight, or that an asteroid hit the ship, we could lose oxygen, water and fuel or maybe the suit does not work on the other planet, or the central computer could not work and leaves us lost in space. The ship's structure may not work, the water and oxygen purification system may not work, or the rocket may lose pressure, there is a probability that the planet those not have what we need to survive, some people could start having mental problems on the way there.

There is many problems but all of them can be fixed.

Links to work (English, Math and Art)

We have been doing work in English Math and Art let me tell you about them.

In English: We made some comprehension writing about back to earth with a bump. We also made a poem about space. we also made pros and cons about space exploration. We made persuasive writing about cons of space exploration. And we made a fake email going to the United Nations to Mr. Antonio Guterres.

In Math: We made a parachute and we had to measure how long the string had to be and we had to calculate how heavy the parachute to work we calculated a light year and how many seconds there is in a year.

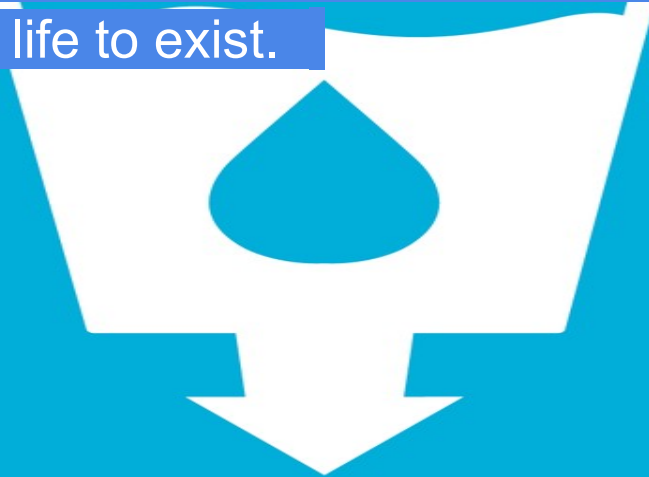
In Art: Made are on planets with some news paper some glue colors and cardboard. |



Global Goal 6 **CLEAN WATER**

The global goal 6 is one of the most important global goals and we will be using it in the rocket. The global goal 6 or clean water and sanitation.

Water will be used in the rocket for experiments to water the garden cooking the word sanitation is washing our teeth or having a shower washing your hands and all that uses water. Water is one of the most important resources for life to exist.



Core Values

The Core Values I have been using are wisdom I demonstrated wisdom because in this project I investigated and by doing that I have learned a lot of things about space.

I have been using compassion because when my friend needed help me and my friends and I used our lunch break to help him.

I also have been showing responsibility by making this presentation.



Actions

But what can we do to not going to another plant ? maybe plant more plants or make posters about space junk and maybe you could even create a club to talk about the problems of space travel or recycle cardboard paper or other things or maybe not waste natural resources or avoid the use of single use items.

The actions that I want to make are simple but work.

I want to go and plant trees and plants to use recycling paper to paint or use a plastic bottle to make a bird or whit a piece of cardboard to make a board game.

Simple stuff can still help.

Websites

https://www.google.com/search?q=proxima+centauri+b&eq=&aqs=chrome_0.35i39i362i8...8.606180597j0j15&sourceid=chrome&ie=UTF-8

https://www.google.com/search?q=fires&newwindow=1&sxsrf=ALeKk02k1gOFgg2NBTXVPayFQ9UUSxnniQ:1603016011298&source=lnms&tbm=isch&sa=X&ved=2ahUKEwi8s7D_873sAhXLQhUIHfz3BL4Q_AUoAXoECBYQAw&biw=780&bih=375#imgrc=lpafayHQ4rV_mM

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