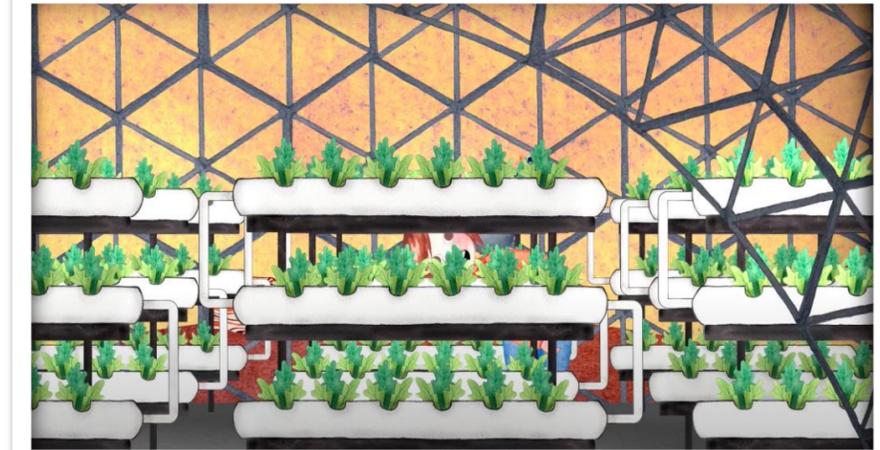
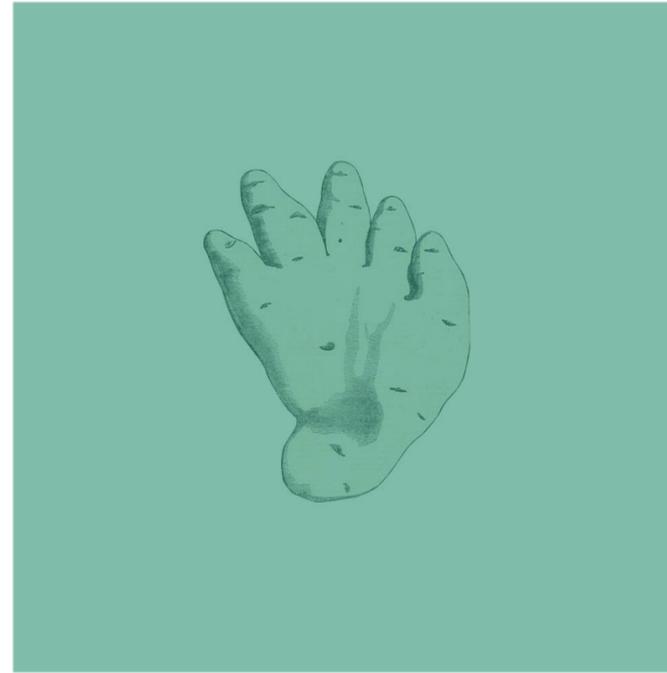


# The space potato

Design a deep space exploration ship that is supported by plants

Deep Space Plant Based Ship



This project will initiate an investigation into the importance of plants to deep space exploration.



## Activity Overview

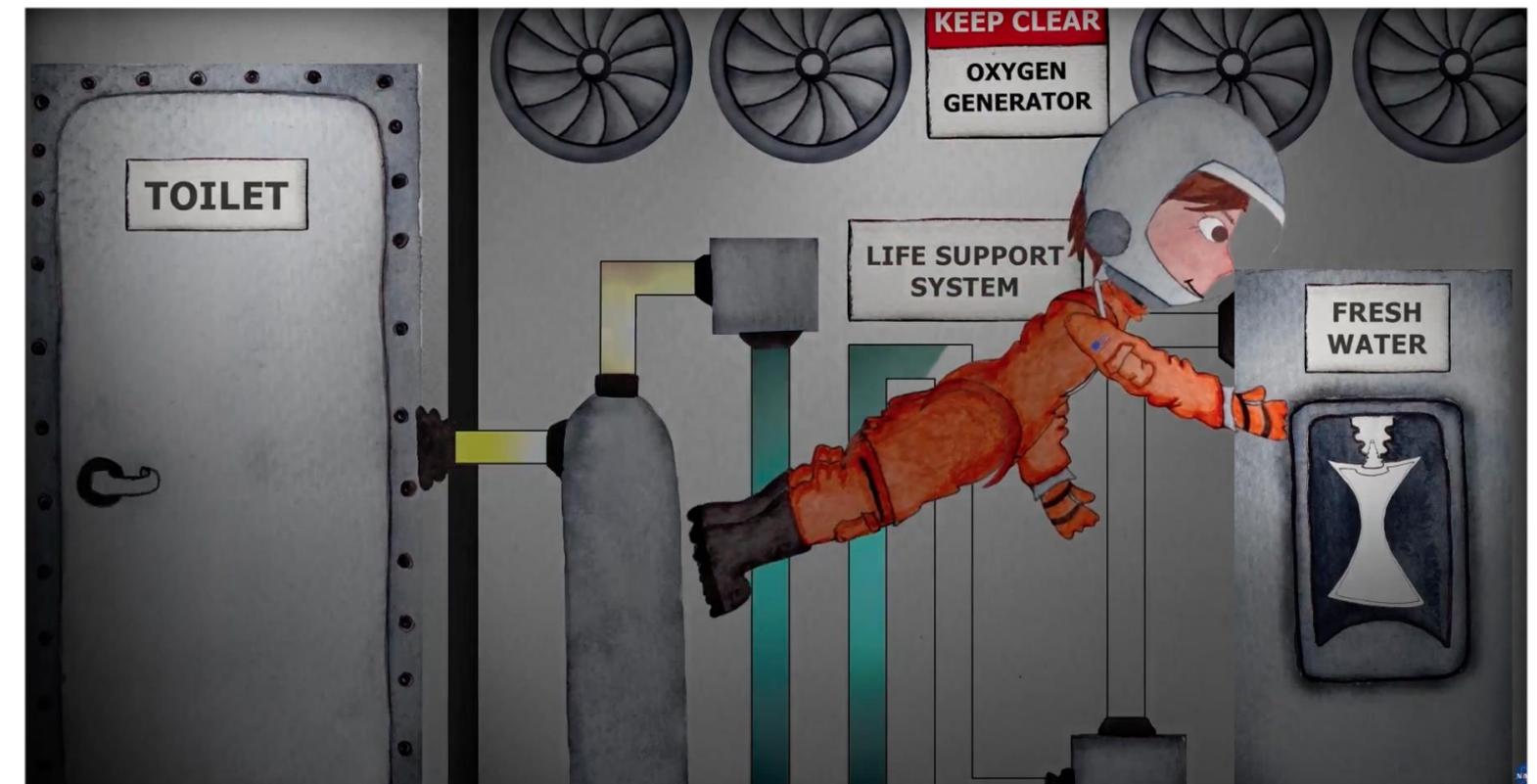
*Design a ship that could be used to explore deep space.*

*The design should be based around the plants that will be needed on the journey so that the explorers can survive.*

## Activity Background

Plants are used in everything around us. We drink plants as tea. Without fruits and vegetables we would become very sick. Our clothing is made of plants. The air we breath is produced by plants. Plants clean our water and regulate rainfall. Without plants, we would not exist.

We must think about plants as we plan for deep space exploration. How are we going to take them with us so that we can survive?



## Materials and Methods

Materials: Any chosen mark-making media such as, paint or crayons.

Design your own deep spaceship using any materials you have on hand. It could be a sketch of a ship, a detailed plan or even 3D paper model.



<https://www.youtube.com/watch?v=vwc74Y3e774>

## Activity

1. Listen to the podcast - [The Space Potato](#)
2. Watch the animation - [Dreaming of Mars](#)
3. Decide what plants you want to take with you to space and why.
4. Design your ship with these plants in mind.



<https://soundcloud.com/user-679811756/space-potato>

### ***Leading questions:***

- 1. What plants produce the most oxygen?*
- 2. What plants give us the most energy?*
- 3. What plants have the most protein in them?*
- 4. What plants are the easiest to grow?*
- 5. What plants will help clean our water?*
- 6. What do plants need to survive?*
- 7. How will we look after them?*
- 8. What will we need on a deep space exploration ship?*
- 9. What kind of services will this ship need that perhaps a ship just going to the Moon and back wouldn't.*

## Activity Objectives

### Specific learning objectives

1. Understand the importance of plants to our survival in earth and space.

## Keywords

*Earth, Moon, Sun, botany, respiration, photosynthesis,*