

A POSTERIORI Play · Experience · Learn

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What is it like on the Moon

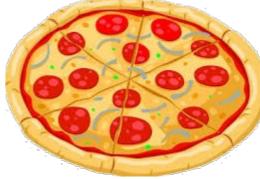
-Craters - No air - Temperature 100° - Poesn't produce light - Mountain - Flats (sea)

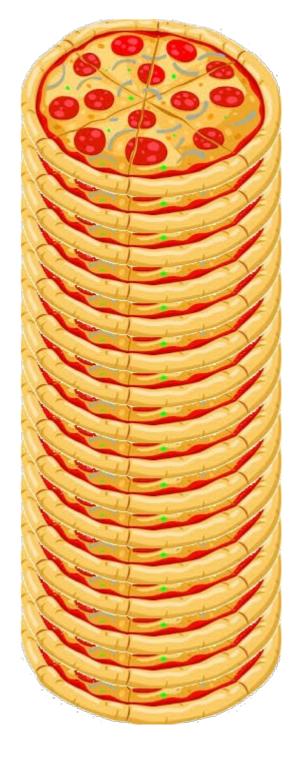
What we need to live on the Moon

-Shelter -Power JFood -Water - Comunications - Tools / eg.P - Transpor

Food

- We need food to survive
 - 1.7kg per day for an adult!
- Very expensive to send food to the moon!
 - Thousands of dollars to send one pizza!





Food

• Better to grow our food on the moon!

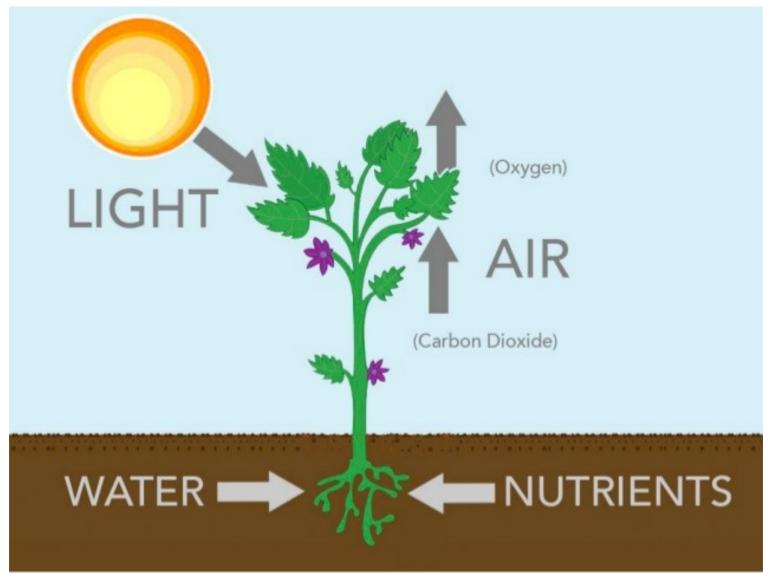


Astronaut Peggy Whitson harvests cabbage aboard the International Space Station



Space farm in development

What plants need to grow

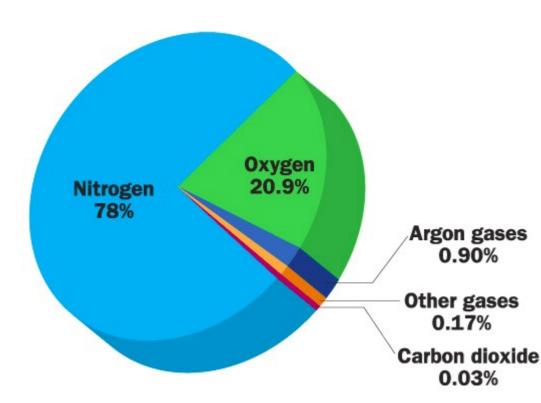


Plan for Today!

- Learn about Air!
- Experiment:
 - Making oxygen
- Lego:
 - Build our rocket module
 - Build our oxygen plant

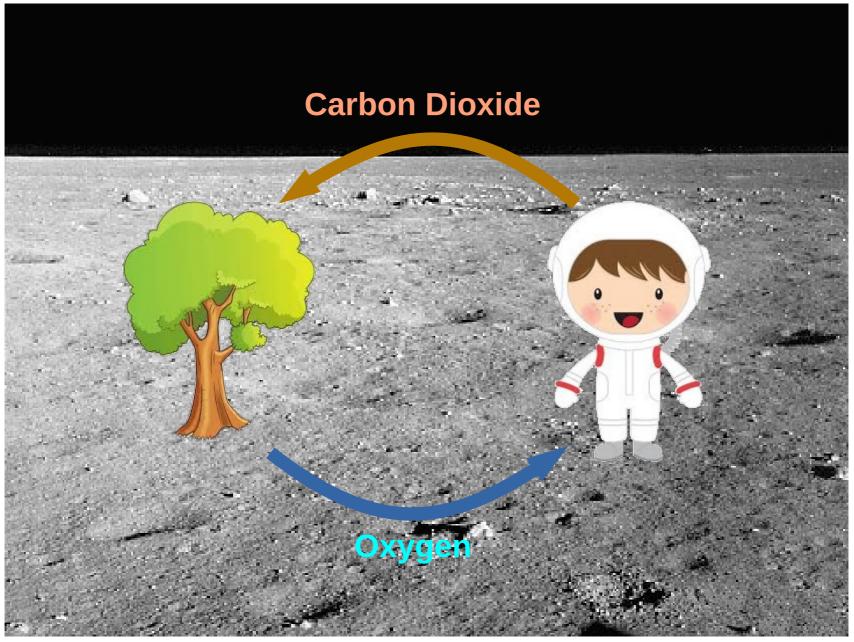
Comunications

What is Air?



- Mixture of different gasses
 - Oxygen (humans need this!)
 - Carbon dioxide (plants need this!)
 - Nitrogen, Argon, Others (Don't do much)

Oxygen Cycle



Research Time!

- How can astronauts get the oxygen they need?
- Search online
- Share with everyone!





Getting Oxygen

Many ways...

- From plants
- Carry oxygen in tanks
- Make it from water

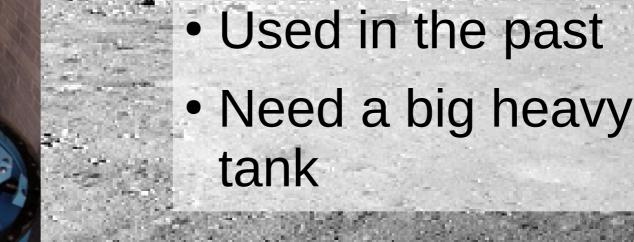
Getting Oxygen From Plants

 Need a lot of plants to produce enough oxygen!

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Carry Oxygen into Space



Oxygen Tank used in the Apollo missions

Oxygen tank used by divers

SED BREATHING OXYGEN D47C012-02

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WARNING II to 3000 peig (207 bar) PROR to use with U.S.P. medical grade 100% OXYSEN. Samove all dirt, oil, grease or other conta sam excluder value sector and REFORE inst

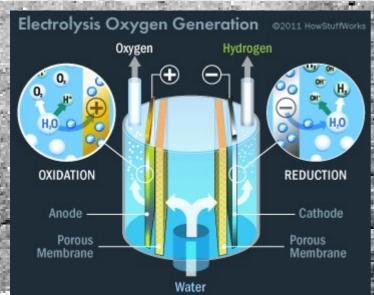
Make Oxygen From Water

H₂C

 Water is made of hydrogen and oxygen

Make Oxygen From Water

- Can split water into hydrogen and oxygen using electricity
- This is called "Electrolysis"



Elektron system on the International Space Station

Experiment Time!

The Future!

 Plants that grows fast and take up less space

> Spirulina Algae grows fast, produces lots of oxygen, and can be eaten!

High tech farms that can grow plants faster and using less space

Time to Build!



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