



**A POSTERIORI**  
Play · Experience · Learn

# Review

## What is it like on the Moon

- Craters
- No air
- Temperature ~~100°~~ <sup>-173°C to 127°C</sup>
- Doesn't produce light
- Mountain
- Flats (sea)

## What we need to live on the Moon

- ✓ Shelter
- ✓ Power
- ✓ Food
- Water
- Communications
- ✓ Tools / eqp
- Transport
- ✓ Air

# Review

## Food

- We need food to survive
  - 1.7kg per day for an adult!
- Very expensive to send food to the moon!
- Better to grow our own!



Astronaut Peggy Whitson harvests cabbage aboard the International Space Station



Our own Chinese Spinach growing in our center under artificial light!

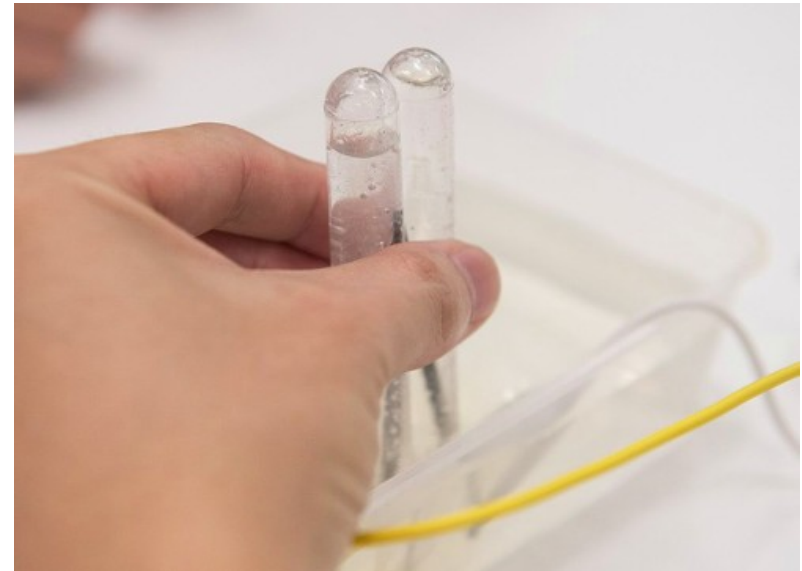
# Review

## Air

- Mixture of Oxygen, Carbon Dioxide, Nitrogen
- Humans need Oxygen
- Can make oxygen and hydrogen from water!



**Elektron system on the  
International Space Station**

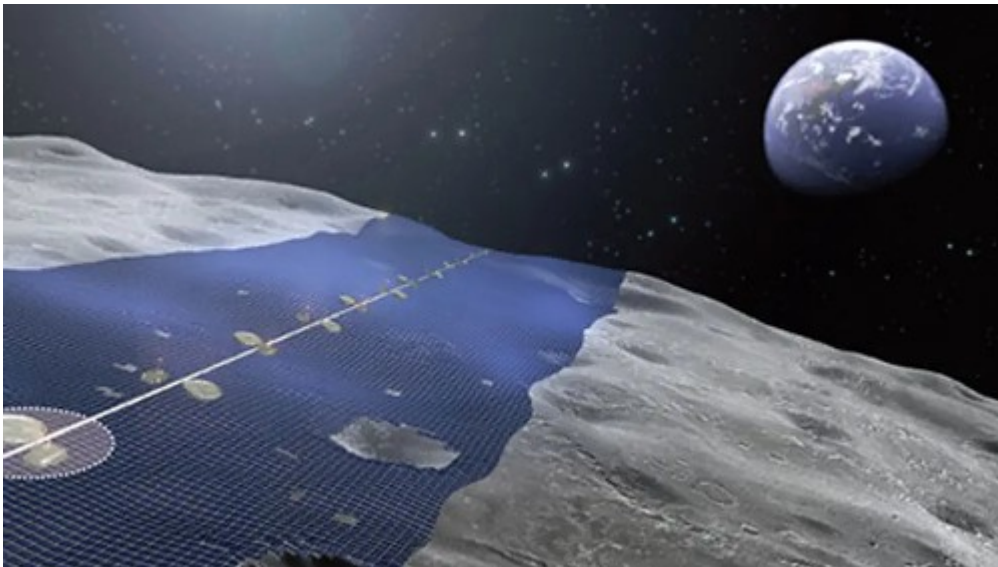


**Making Hydrogen and  
Oxygen in our center**

# Review

## Power

- Need power for lights, making oxygen, temperature control, grow food, etc
- Can get lots of power from the sun!



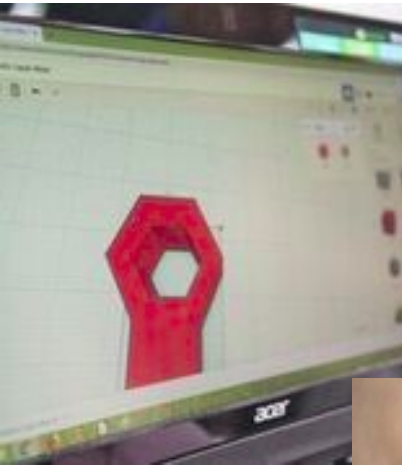
Possible solar panels on the moon



# Review

## Tools and Shelter

- 3D print the tools that we need in space
- 3D print shelter using materials on the moon



# Plan for Today!

- Prepare “Show Me” Poster
  - Plan
  - Print and Draw
  - Test Layout



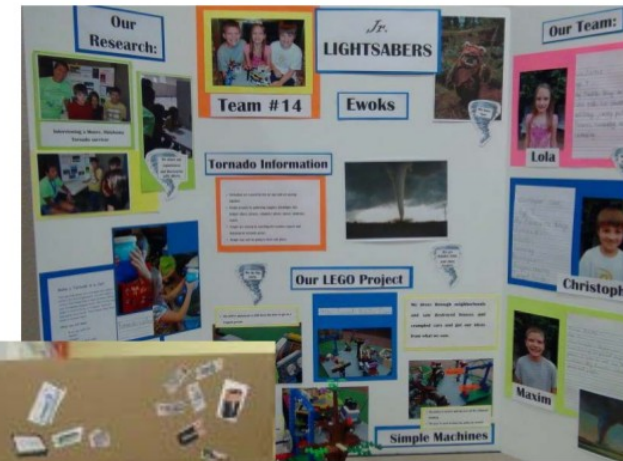
# “Show Me” Poster

- Should have 3 main parts
  - Explore
    - What did you learn?
    - How did you learn it?
  - Create and Test
    - How did you create your moon base?
    - How did you test them?
    - How did you make them better?
  - Share
    - Share about your team!



# “Show Me” Poster

- Can include:
  - Words
  - Drawing
  - Photos
  - Objects



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