THE ATMOSPERE ON THE MOON



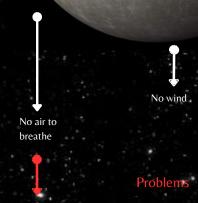
Atmosphere on Earth The atmosphere is a layer of gases that surround the Earth. It helps to keep the earth warm enough to live on and it protects the earth by blocking some of the suns' powerful rays. It contains the gas oxygen which we need to breathe, and for all life on Earth.

Atmosphere on the Moon

There are no gases surrounding the moon. There is no atmosphere on the moon. When there is no gas, this a vacuum. Most of space is a vacuum.



It is made up of different gases: Nitrogen 78% Oxygen 21%, • Tiny amounts of carbon dioxide and water



- People are likely to die in less than two minutes 1.Saliva on tongue bubbles (boils)
- 2.Lose consciousness within 10 seconds.
- 3.Lose control of their **bladders** and bowel
- 4. <u>Mus</u>cles t<u>ighten</u> stopping blood flow to heart and brain, breathing stops, then death.
- 5.Bacteria start to digest you from the inside but very lowly as its so cold!







Gas filled Suit

Shielding against: UV light (and other radiation) Must be : Flexible punctureresistant Hot and Cold

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Hide underground from sun's harmful rays

1.Lots of harmful rays from the sun 2.Some

No atmosphere

(Vacuum)

places are very hot as no

atmosphere cannot block sun's rays. 3.Some places are very cold, as no atmosphere can trap the sun's heat.

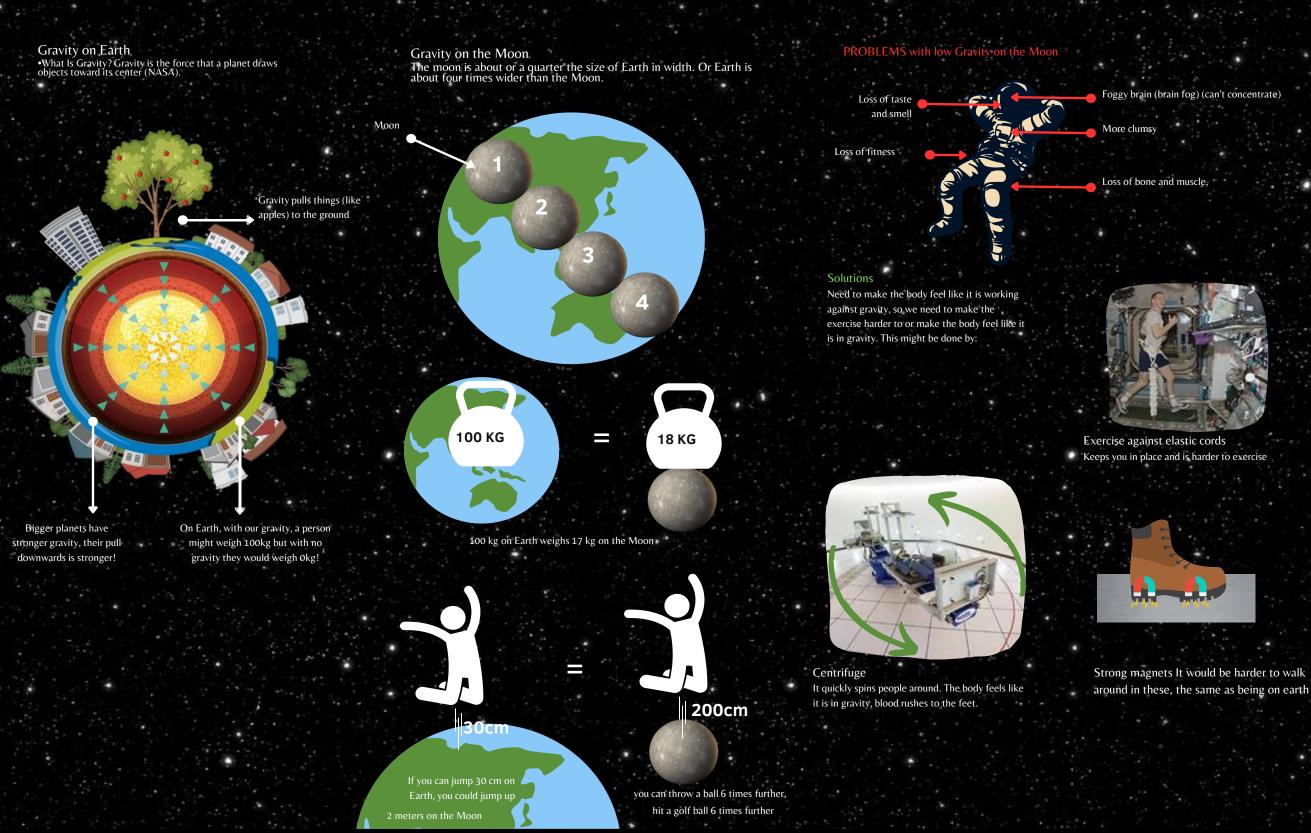






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GRAVITY ON THE MOON



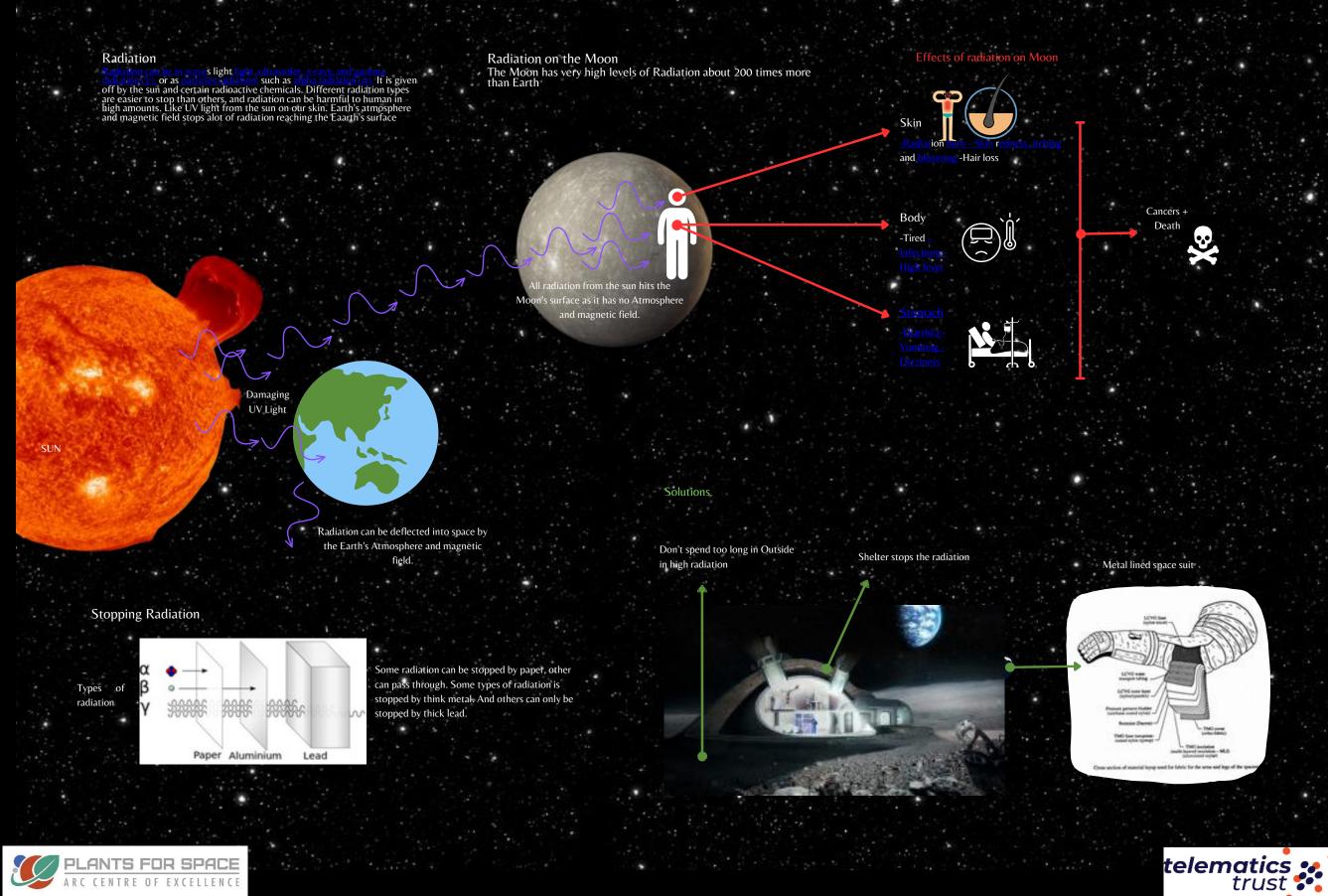






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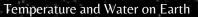
RADIATION ON THE MOON





Living with the tempera

TEMPERATURE AND WATER ON THE MOON



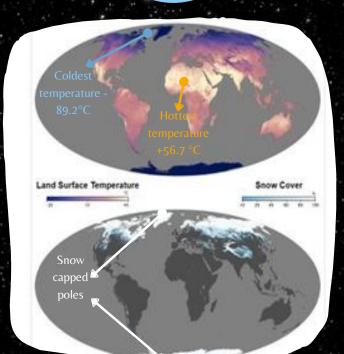
-Light and heat from the sun warms the Earth, but some places are warmer than others, and some seasons are warmer than others. -Clouds and atmosphere reflect some of the heat and light and also traps it in to keep the Earth's surface warm. -Earths poles are colder at the pole because there is less light and heat

Dry dusty surface

No liquid water

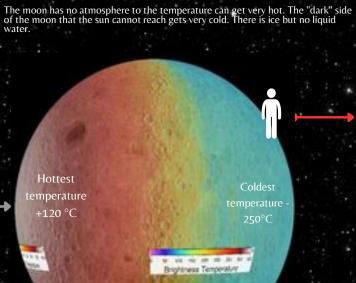
Sun gives off light and heat energy.

Water is ice at poles, saltwater oceans, Freshwater lakes and creeks

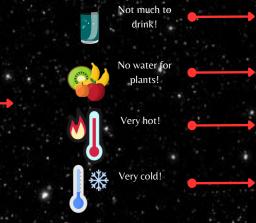


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Temperature and Water on the Moon



Ice at poles and in cold deep craters that don't see light



No plants = No food Heat exhaustion Hypothermia

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Dehydration

Death

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Temperature Solutions Heated and cooled moonbase

Water Solutions Send water from Earth or collect from meteors

Recycle water that was brought from earth



Waste water (toilet,

sweat breath)

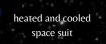
 \bigcirc Waste water collected



Water is cleaned





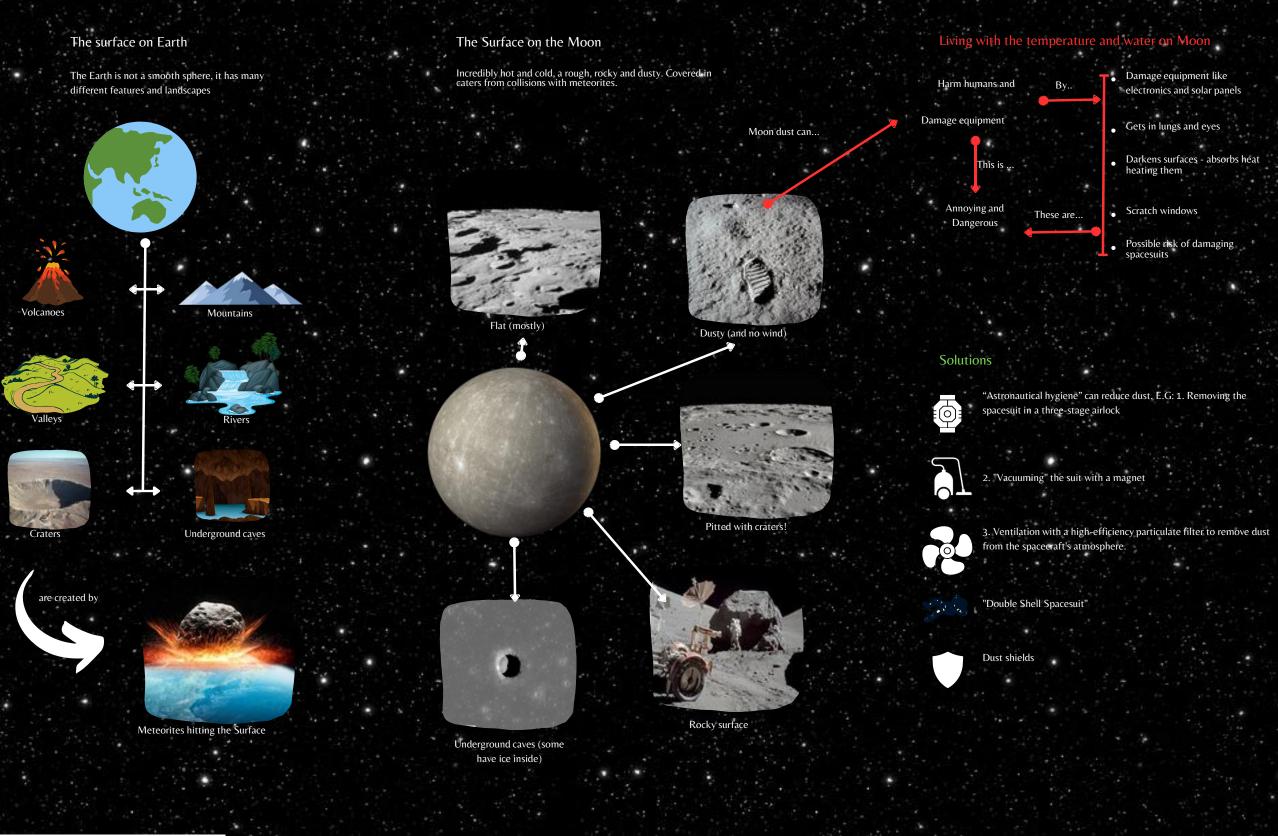






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THE SURFACE OF THE MOON









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THE CHOSEN SOLUTION





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IS YOUR DESIGN SUCCESSFUL?





What would the user think about it?

Would users enjoy and love it?

Would it work? Would people Enjoy doing it?

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DOES IT HELP **HUMAN SURVIVE AGAINST:**

□ LESS GRAVITY

- ☐ TEMPERATURE
- ☐ WATER SUPPLY
- RADIATION
- METEORITE STRIKES
- **MOON DUST**

DOES IT HELP HUMAN NEEDS:

FOOD

WATER

- A HEALTHY BODY
- **MENTAL HEALTHY**
 - **PEOPLE AND PLAY**