

Living in Space Note-taking Guide

waste, reflective, filters, liquid oxygen, humidity, space, atmosphere, greenhouse, gravity, breathe, temperature, oxygen, liquid hydrogen, air conditioning, sunlight, water, attach, carbon dioxide

Compared to Earth, _____ has a very different environment.

The ______ in the shadow of a planet or Moon can dip down to -459 °F while the temperature can become fatally high in direct

_____·

Space does not have air, so there is no ______ to breathe, no ozone to shield the Sun's harmful rays, and no ______ gases to trap heat.

In addition, there is no _____ and very little gravity in space.

What are some of the equipment astronauts will need to maintain Earth-like conditions?

In order to ______, they will need the right mix of air. The International Space Station carries ______ and liquid nitrogen in pressurized tanks.

These gases are released in the right proportions in the spacecraft to mimic Earth's

To keep these gases from escaping, the spacecraft is well sealed. However, being in a confined space also traps harmful gases, like ______ exhaled by the astronauts.



Too much carbon dioxide is deadly. This is why ______ are used to remove carbon dioxide and other harmful gases from the spacecraft.

_____ is used to control the temperature inside a spacecraft.

Absorbing and _______ surfaces on the outside regulate the amount of heat affecting the craft and protect it from harmful radiation.

Water is one of the most critical requirements in space. In space, it is made by mixing liquid oxygen and ______ found in fuel cells.

Scientists developed the Water Recovery System (WRS). It takes ______ water produced from brushing teeth, washing hands, and ______ from the air and purifies it through machines.

Another problem that astronauts face in space is that there is very little or zero

They often need to ______ themselves to a wall or seat when they work or sleep, to keep from floating around and bumping into something.