

A dramatic space scene featuring a large blue planet on the right, a bright green nebula on the left, and a cluster of dark asteroids in the center. The background is a deep black space with a few distant stars.

Mission Catastrophe

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Purpose

The purpose of Mission Catastrophe is to travel to the asteroid RQ36 (101995) discovered in 1999. This asteroid is planned to hit the Earth in 2182. If Mission Catastrophe is successful, then the information found will include, but not be limited to: what the asteroid is made of, if resources can be found on it, and if it needs to be destroyed. It was decided that the most important necessities for the crew participating in the mission are hygiene and teamwork.

Hygiene

Hygiene is important, especially in space. It can prevent you from getting sick and affect the behavior of you and your colleagues. Because of zero gravity simple tasks such as combing your hair and shaving aren't too difficult, but other tasks such as showering and going to the bathroom are made hard, but still not impossible.

Hygiene Methods

SHOWER

What is it?

The shower is a cylindrical unit used by all crew to keep clean. Since there is no gravity, water would just cling to astronauts. Instead they take sponge bathes, which conserves water and is important on the ship. Astronauts clean their hair with a no rinse shampoo and rub their hair with a damp towel. It is important that no hair falls off the towel. This is a safety hazard because it can be inhaled, irritate an eye, or clog an air filter.

TOILET

The toilet is a small raised bowl that astronauts have to strap themselves into. This is used for the disposal of waste. Air is used to simulate gravity and move the solid waste into a container for disposal. There are two separate urination devices for males and females. Both are a cup connected to a tube that also uses air to create the illusion of gravity and suck the waste into a container for proper disposal. Liquid waste is then shot into space where it vaporizes.

DENTAL CARE

Astronauts are allowed to use any toothpaste in space and spit it into a towel. Recently, however, astronauts have been sent with edible toothpaste to conserve water.

SHAVING

While shaving isn't normally a problem for short missions, those going on longer ones may need a trim. They usually use an electric razor that vacuums up the excess hair.

Hygiene: What Was Learned

While researching this topic, a large amount of information was learned about how astronauts can function normally while in space. With all of the special sleeping accommodations and hygiene machines, astronauts and their bodies can survive and function well.



Conflict Resolution and Teamwork

Conflict resolution and teamwork is important because without it, the entire mission can fall apart. It can take the cooperation of several NASA centers, industries, and workers to prepare and complete a trip to space safely.



Conflict Resolution and Teamwork

When working on any space mission, there is no time for disagreements or conflict. If you run into an issue before, during, or after a trip to space, it takes the cooperation of everyone, and everything, to keep things running smoothly.

For example, if there is a problem with the space craft then all of the workers need to be focused on fixing it so the mission can continue. Likewise, if there is conflict between two workers, it needs to be resolved as soon as possible.



Conflict Resolution and Teamwork

What Was Learned

If there is conflict, whether it is between two people, or even a person and a piece of broken equipment, the entire mission can, and will, crumble to pieces. If there is conflict between workers than there is a slim chance that human exploration can be possible. Teamwork is key when building a space craft, exploring space, and returning home safely.

CONCLUSIONS

Both topics relate to each other because if there is neither teamwork or proper hygiene the mission cannot be upheld, and RQ36 could not be researched, or traveled to. Without a mission, it is a possibility that the asteroid could make contact with Earth. Mission Catastrophe must be completed.

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