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Tpo 50 integrated task

388 words

30 min

The reading asserts that sending humans to mars faces some issues that did not happen in previous missions of sending humans to the moon. The author suggests three problems which human face while sending humans to the mars. The lecturer, however, finds the idea dubious and casts doubt on the reasons proposed by the reading passage.

The author argues that a trip to Mars takes a longer time than going to the moon. So it is required to have more space for essential stuff such as food and water, and because the space of vehicles is too limited, it is impossible to provide all required materials by the crew for a two-year journey. Conversely, the lecturer brings up the idea that there are some so-called hydroponic plants that produce oxygen and need water rather than soil for growing. These plants cultivate in very tiny spaces, so this might solve the space problems in the vehicle. Also, these plants are able to recycle water and can provide fresh water for drinking in space.

Furthermore, the reading passage holds the view that living in zero-gravity space for a long period of time during the mars mission might be very harmful to the human body. Staying in that environment for two years might decrease muscle mass and lower bone density. On the contrary, the professor underlines that there are a lot of experience living in a zero-gravity environment for months. It is proved that it is possible to reduce and control the harmful effects of living in that place. Regular exercise can enhance their muscle abilities and increase muscle mass, also by consuming a variety of minerals the bone density problems might not occur.

Finally, the reading asserts that astronauts might face dangerous levels of space radiation. So they should use a heavy shield to cover the whole spaceship, making it too heavy to go to mars. In contrast, the speaker dismisses the issue because radiation is not always dangerous for an astronaut. The amount of radiation is not costant, and they can use special equipments to monitor the amount of radiation to which they are exposed. When the amounts of radiation are dangerous, they can go to a small shield and protect themselves. So a tiny shied enable them to reduce the weight of the spaceship and save the crew.