The reading asserts that several problems should be solved in order to sending human to Mars. The writer believes that despite some successful missions to the Moon, Mars is really further than the Moon is, so the mission is impossible. The lecturer, however, proposes some solutions for mentioned problems by the reading passage.

First of all, the reading states that a trip to mars takes at least two years, and the cargo capacity is limited. Thus, they will suffer from lack of food, water and oxygen. The lecturer, on the other hand, suggests that they can use hydroponic technique for growing plants in water rather than soil. Cultivation food crops by this method needs a small space. In addition, waste water can be recycled to clean water. The pant absorbs CO2 and release O2; hence, it provides fresh air for breathing.

Furthermore, the author believes that the zero-gravity environment of space has some negative effects on human health, and over two years, these effects would be severe. In contrast, the speaker says that lots of astronauts have been in the space for many months. There are several techniques to manage these effects. Regular exercise and taking vitamins and minerals like Calcium are really fruitful for bone density and other medical problems.

Finally, the writer holds an idea that astronauts would be exposed to dangerous solar radiation, and protecting shied is too heavy. This argument is challenged by mentioning that dangerous level of radiation is not emitted all the time, but it is occasionally. They can equip the space vehicle with special instrument which monitors the level of radiation. Moreover, when the radiation is detected in dangerous level, they can use small light shelter which shields against solar radiation.

Words: 288

Time: 29 min