

Model of Mars base

Grade 5 - 8

Astronomical Astronautical Club Ronald Parise

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During the one year stay on Mars the crew of the base lives in rocket that was used to arrive at the surface of Mars and that will be used to go back to the orbit around Mars before returning to the Earth.

Along with the food and water brought from the Earth they also purify water found in the subterranean layers of Mars (permafrost).

Members of Mars expedition in 2047. use solar cells for power supply.

They manufacture a portion of the food in the greenhouse that is in the shape of a geodesic dome coloured green (psihological reason). The dome, that is made of light carbonic fibres, was transported and landed to Mars in components by parachutes and air bags. In the production of food the organic waste developed from the metabolism of the inhabitants is used as well (biological recycling).

They do field research around Mount Olympus partly with the help of tracked vehicle and robotic six-wheel vehicles controlled via telecommunication satellite (orbit around Mars).

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