

Mars Habitat



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The year is 2076 and an international venture to Mars is in the initial planning stages. Your mission is to design a Mars Habitat for 25 crewmembers. You will work in team to set up a habitat that will address the actual challenges that future planners will face. Your team's design should be developed based on technological and scientific information gathered from a variety of sources i.e. Internet, science journal and magazines, books, etc. You will work with engineers from other teams who have the same component. Together you will complete your research and share the results. Once the engineers have completed their research on individual components, you will return to your base group and consult with the other engineers to design a habitat for long-term survival on the surface of Mars.

The Mars habitat must provide for:

- Basic human need – physiological, psychological and social
- The ability to do scientific studies
- A livable environment/shelter

The components necessary for research will be as follows:

clothing	food	water
recreation	waste management	shelter
communication	transportation	energy

Each engineer will submit a written report for their component with their base team as well as a visual aid to used during the presentation in class.

