

# Mission: Life on Mars

## Overview:

Your mission is to think logically through all aspects of the real possibility of life on Mars. You have been given an endless research grant that has no limitations on the amount of money to spend. This trip is 6 months in either direction

## Your Task: Create a model city on Mars for 5000 people

You must think through all aspects of life here on Earth and make decisions about those things most important to sustaining life. Consider the following:

- Environment/conditions
- Life support systems (oxygen, etc.)
- Food
- Shelter
- Recreation
- Medical Facilities
- Waste disposal system
- Construction materials
- Transportation to and from Mars

**Research and Notetaking:** Before you plan your city, you need to find out some information about Mars and space travel. For example, surface temperature fluctuate greatly and the terrain is extremely rugged. What does this mean for how you will build your shelter? Notetaking Example:

Key Words	Facts about Mars	So what?
Weather	<ul style="list-style-type: none"> <li>• Dust storms</li> <li>• sometimes 400 km/h winds</li> <li>• fluctuations in temperature</li> </ul>	Shelter must be strong enough to withstand wind
Geography		

## Criteria: Turn in the following: (50 marks in total)

1. A detailed Outline of your plan and your completed What/So What notetaking sheet (10 marks)
2. A detailed diagram (poster) or model of your proposed city. This is to be neatly presented in pencil, with labeling complete (25 marks)
3. A written explanation (1-2 pages max) of how you intend to create and support 5000 people on Mars (10 marks).
4. Presentation to the class of your proposal (5 marks)

