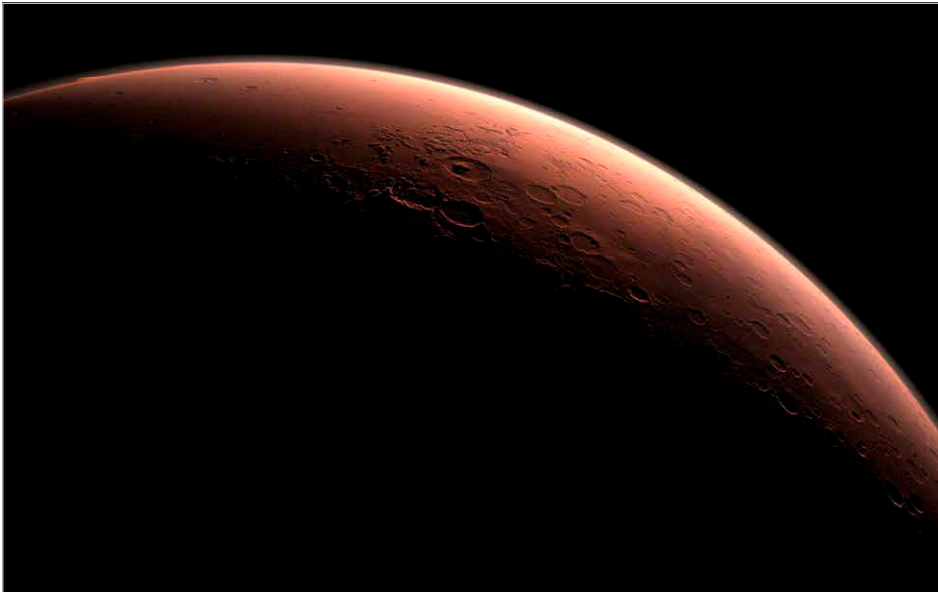


Going Beyond ...



This series of discussions and projects has been designed to familiarize students with the planning and development for space exploration. From going into orbit to exploring distant stars . . . how will their planned exploration stand up to the ultimate test?

Your class will research and discuss what is needed to create self-sustaining, reliable human environments and habitats that allow us to create lasting bases in space, on the surface of the Moon and on planets like Mars.

The infrastructure and technologies needed to help us create self-sufficient human settlements far away from Earth have not yet been built. To survive away from Earth's atmosphere, humans need systems to provide water to drink, air to breathe, and food to eat. These necessities aren't present in space in usable form, but space is full of vast resources and opportunities. If your class discovers them, maybe they could change and improve life here on Earth and help us to survive on another planet.

As the exercises continue, you will have the chance to engage in activities that are targeted at one or all of the following discussions:

- What do humans need to survive and create a colony in space?
- How can you generate energy to support a human outpost?
- How can robots help humans explore?