



# Integrated Mars:

## Freshman Semester Project:

*Integrated Mars is a research activity to learn, explore and present scientific information related to our 4<sup>th</sup> planet Mars. Below you will find project parameters, resources, and guidelines. Be sure to read through all the information below before you begin.*

### **Introduction:**

This project is described as Integrated because it will involve several areas of academics and science throughout the 2-3-week experience. Students will investigate the scientific aspects of Mars through the lens of Earth Science. Students will also review the literary human experience aspects of science fiction in English. Last, students will explore the numerical aspects of space and space travel in Math.

All this research, investigation, and learning will culminate in a Mars Presentation by the students that will reflect one of the main branches of the Integrated Mars Experience.

### **Presentation Topic Choices:**

Students will choose a Mars-related topic to focus their Mars Talk presentation. (See Mars Moodle)

### **Presentation Requirements: “Mars Talk”**

Students will create a “**Mars Talk**” presentation and slides for their final Mars Activity. The presentation should be **5 Min in length (+/-30 seconds)** and include information acquired during the project time. Included slides should be between **8-10 slides including Title, Conclusion, and References slides.**

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### **Earth Science Topics:**

- Mars – Close-up – Scientific Insights
- Mars – Geology and Geologic History
- Mars – Explorations
- Mars – Space Radiation

### **English Literature: Science Fiction Review**

- Isaac Asimov
- Ray Bradbury
- Arthur C Clark
- Kurt Vonnegut

### **Math Space Concepts:**

- Escape Velocity
- 3D Mathematics
- Scientific-Notation

### **S4S Speech - Presentation Primer**

- Speech Standard 3 – Speech Skills: Proper Speech Aspects
- Project / Assignment Checks and work time
- Specific Speech Topics – TBA and Determined during project

**NOTE-** Some project aspects may be changed by instructors as needed