MISSION FEATURES

EXPEDITION MARS:

- Mostly on-screen tasks, limited use of paper binders (multiple tools to manage on screen)
- All jobs involve quite a bit of reading
- Whole group makes a decision at mid
- Minimize 1st mission “fail”, view event as a possible positive
- Future scenario: MC is on Phobos; astronauts are traveling to established Mars field base
- GEO team uses robotic arm; ROBOTIC team might use robotic arm
- GEO may use glovebox
- COM has less multi-tasking; COM looks for lost comm satellite when not sending messages
- Minor emergencies. Major events give MC op to work together and make decision
- Many teams talk on headsets and need to work on pace with their partner

RENDEZVOUS with a COMET:

- Paper task cards
- Jobs have varied amounts of reading and skill level
- Whole group makes a decision at mid
- Current scenario: MC is Houston/ Space Lab is representative of International Space Station
- ROBOTIC and HAZMAT use robotic arms
- BIO uses glovebox
- COM requires multi-tasking
- LS has major emergencies. Others (ROBOTIC, HAZMAT, SW) have minor emergencies.
- COM, AERO ENG, NAV are only teams on headset; others email or send through COM
- Mission includes spectrum analysis; Barany Chair; possibly 3D print and HAZMAT suit

RETURN to the MOON:

- Paper task cards
- Jobs have varied amounts of reading and skill level
- No group decision at mid; need to overcome idea first crew failed
- Near future scenario: MC is Houston/ Spacecraft is traveling to site of future lunar colony
- ROBOTIC and HAZMAT use robotic arms
- GEO uses glovebox
- COM requires multi-tasking
- LS has major emergencies. Others (ROBOTIC, HAZMAT, SW) have minor emergencies.
- COM, AERO ENG are only teams on headset; others email or send through COM
- Mission includes may include Barany Chair and HAZMAT suit

BECOMING A SCIENTIST:

- Paper task cards
- Jobs have varied amounts of reading and skill level
- No group decision, and no NAV team simplifies and shortens overall timeline of mission
- Current scenario: MC is Houston/ Space Lab is representative of International Space Station
- ROBOTIC and HAZMAT use robotic arms
- BIO uses glovebox
- COM requires multi-tasking
- LS has major emergencies. Others (ROBOTIC, HAZMAT, SW) have minor emergencies.
- COM, AERO ENG are only teams on headset; others email or send through COM
- Mission includes spectrum analysis; Barany Chair; possibly 3D print and HAZMAT suit