MARS TEAM DESCRIPTIONS

Team	Mars Control	Mars Transport Vehicle
COM/ DATA	Sends verbal messages to MTV , including emergency messages. Manages message flow in MC. Manages and monitors outgoing text messages from all MC teams. Skills: 5th grade reading level, good oral communication, time management, and keyboarding skills	Sends verbal messages to MC. Manages the message flow in the MTV. Manages and monitors outgoing text messages from all teams to include image data from the spacecraft. Skills: 5th grade reading level, good oral communication, time management, and keyboarding skills
NAV	Assist and monitors MTV; lift-off from Mars; launch maneuvers Skills: giving oral instructions, math, graphing skills, good time management	Achieve Martian orbit; select a landing site on Mars; lift-off from Mars; launch maneuvers Skills: following oral instructions, math, reasoning
PROBE	Assists and monitors the construction and deployment of the probe. Skills: giving oral instruction over headset, reading	Constructs and deploys a probe that will be launched to one of the Martian Moons; Phobos or Deimos. Skills: reading, following oral directions
REM 1 REM 2	Records and analyzes data sent from MTV. Conducts research on Earth and Mars rock and mineral resources. Provides emergency solution procedures. Skills: interpreting data, math and keyboarding	Collects data on mass, volume, and geological make-up of Earth and Mars rock samples. Skills: metric measurement, observation and keyboarding
LS	Records and analyzes data sent from MTV. Conducts extensive research and makes decisions regarding safety of crew. Skills: analysis of data, math and keyboarding	Collects data on pH of water, oxygen tests, and solar panels. Skills: collecting data, math, following written instructions and keyboarding
MED	Collects, monitors, and analyzes medical test data. Skills: problem solving and keyboarding	Conducts medical tests on the MTV crew. Skills: proper use of testing equipment and keyboarding
ISO 1 ISO 2 ISO 3	Records and analyzes data sent from MTV. Conduct research and respond immediately with decisive actions. Skills: reading, making decisions, interpreting data and keyboarding	Conducts experiments regarding radioactivity, meteoroids, and hazardous materials. Skills: good hand-eye coordination, high frustration tolerance when working with robotic arms, and keyboarding

How to match student abilities to teams on The Crew Manifest

Communication/Data: The communication specialist has excellent verbal and auditory skills. This student is a good time manager. This team is definitely not the place for the class clown. Specialist possesses excellent reading, keyboarding and organizational skills.

Navigation: The navigators have excellent reading comprehension, verbal, and math skills. They follow oral and written directions well . This specialist is able to work within a set timeline.

Probe: The probe engineers are self starters, able to follow oral instructions well and are good listeners. This specialist is able to complete work within a set timeline.

Remote: The remote specialist is comfortable in working with oversized gloves in the glovebox. This specialist is observant, knows how to read and use metric equipment, and has excellent research skills. Keyboarding and organizational skills also required.

Life Support: The life support specialist is a multi-tasker and a problem solver. This specialist follows written and oral instructions with ease. Keyboarding and research skills also required.

Medical: The medical specialists are self starters, comfortable with giving and following both written and oral instructions as they perform a variety of tests on the spacecraft crew. Keyboarding, problem solving and research skills also required.

Isolation: The isolation specialist possesses excellent hand-eye coordination skills and patience to work with sophisticated robotic equipment. This specialist reads well and follows written and oral instructions. Keyboarding and research skills also required.

VOYAGE TO MARS
CREW MANIFEST

Mission Date _____ Time _____

Teacher name _____ School _____

Grade(s)_____ # of students_____ # of chaperones_____

1. **Assign the crew following the numbers listed below. Maximum crew size is 34.**

2. FAX the Manifest at least two days prior to mission day. FAX #: 423.425.2190

Team Name	Group A Begins in Mars Control	Group B Begins in Mars Transport Vehicle
Com/Data	1 _____	2 _____
Navigation	3 _____ 21 _____	4 _____ 22 _____
Probe	5 _____ 27 _____	6 _____ 28 _____
Remote 1	7 _____ 9 _____	8 _____ 10 _____
Remote 2	23 _____ 25 _____	24 _____ 26 _____
Life Support	11 _____ 15 _____	12 _____ 16 _____
Medical	13 _____ 17 _____	14 _____ 18 _____
Isolation 1 Isolation 2	31 _____ 33 _____ 19 _____ 29_____	32 _____ 34 _____ 20 _____ 30_____