

CREW MANIFEST

SCHOOL (Grades 5-8)

Challenger Learning Center at Heartland Community College

PLEASE PRINT

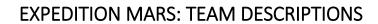
School Name & Teacher(s)	Grade	Date	Time	Scenario	# Students	# Chaperones
						& Teachers
		, ,			# Girls:	
		, ,				
					# Boys:	

TEAM	MISSION CONTROL	MTV / SPACECRAFT
COM Communication	1	2
SPCW*	7	8
Space Weather	23	24
GEO Geology	17	18
NAV*	3	4
Navigation	19	20
BOT Robotics	9	10
BIO	15	16
Biology	29	30
ROV*	5	6
Rover	21	22
LS	13	14
Life Support	27	28
MED	11	12
Medical	25	26
	33^	34^
PRESS Press	31^	32^

^{* =} More difficult team that might benefit from having more team members

☐ I would like to have certificates for my students ☐ I do <u>not</u> want certificates for my students

^{^ =} Slots only used for very large groups; not recommended for smaller groups





TEAM	DESCRIPTION	RELATED CAREER TITLES
COM <i>Communications</i>	 Provide communication support between astronauts and Mission Control Locate and reprogram missing communication satellites 	Communications Engineer CAPCOM
Space Weather Weather	 Mark, measure, and calculate observations of objects moving through the sky Track and observe dust storms on the Mars surface. 	Space Weather Forecaster Meteorologist
GEO Geology	 Operate a robotic arm to make remote observations of rock samples Examine Martian rocks in a glovebox for key elements and minerals Research and map possible dig sites for important minerals 	Geologist Roboticist
NAV Navigation	 Calculate and plot the course for the Spacecraft navigate to Mars from Phobos Perform critical pre-flight checks to ensure the MTV is ready to fly Guide the MTV through a safe descent process 	Pilot Commander Aeronautical Engineer
BOT Robotics	 Write and execute basic programs that will guide an unmanned rover to its destination Perform a series of evaluative tests on a robotic arm 	Computer Scientist Programmer Mechanical Engineer Roboticist
BIO Biology	 Analyze soil samples to determine if microbes are present Grow and analyze bacterial cultures to monitor the MTV environment 	Biologist Microbiologist Virologist/Bacteriologist
ROV Rover	Build and test a remotely operated vehicle (R.O.V.) to search Mars for signs of water, installing critical equipment and components and retrieving data	Mechanical Engineer Electrical Engineer
LS Life Support	 Measure and monitor conditions onboard the MTV to ensure a safe working environment for all crewmembers Manage environmental anomalies in a calm, efficient manner 	Systems Engineer Technical Specialist Environmentalist
MED Medical	 Record crew radiation levels and recommend preemptive treatment as necessary Monitor crewmember health through a variety of diagnostic tests: reaction times, blood pressure, heart rate, temperature, etc. 	Doctor Nurse
PRESS Press	 Interview crewmembers during the mission Begin to compose an article for publication featuring mission information and crew contributions 	Communications Specialist Journalist Reporter