

TEAM DESCRIPTIONS

Review each job descriptions to familiarize yourself with the type of work performed during the mission.

	TEAM	DESCRIPTION	Interest & Skills
1	COM Communications	Goal: Ensure all <i>voice</i> messages are sent and received accurately between the astronauts and Mars Control teams. How: Use a microphone and communication cards to transmit voice messages.	Interest & Skills: Good Listener, Calm and Clear Speaking Voice, Organized, Patience Learning Style: Auditory, Verbal
2	DATA (Data Manager)	Goal: Accurately send and receive electronic messages between the astronauts and Mars Control teams. How: Use a keyboard to type science and numerical data gathered from experiments by the astronaut crew.	Interest & Skills: Reading Proficiency, Data Entry, Working Under Stress Learning Style: Auditory, Visual
3	NAV Navigation (Pilot)	Goal: Prepare the spacecraft for a safe landing and liftoff without crashing. How: Measure the size of planets to triangulate the spacecraft's location. Select the correct angle to enter Mars orbit. Plot a landing path using coordinates. Calculate the spacecraft's escape velocity at liftoff.	Interest & Skills: Math, Space, Problem Solving Learning Style: Auditory, Visual
4	PROBE (Electronic Engineer)	Goal: Launch a satellite to the moon, Phobos. Launch a science rover to Mars. How: Follow building instructions to assemble electronic parts on a motherboard that will communicate with numerous sensors.	Interest & Skills: Reading, Mechanical, Analytical Learning Style: Auditory, Kinaesthetic
5	LS Life Support (Environmental Scientist)	Goal: Maintain a safe environment on the spacecraft to keep the crew alive. How: Use gauges to measure atmospheric and environmental conditions. Change oxygen filters. Test recycled water for impurities. Care for hydroponic plants and fish. Take emergency steps to restore healthy living conditions.	Interest & Skills: Environmental Studies, Problem Solving, Science Learning Style: Visual, Kinaesthetic
6	*ISO 1, ISO 2 & ISO 3 Isolation (Robotic Engineers) *Three separate teams	Goal: Use joysticks to control robotic arms that grip and handle hazardous materials in three Isolation Boxes. How: ISO 1 —Pick up and weigh chemical bottles. Remotely handle germ slides. Identify microbes on the spacecraft. ISO2: Inspect solar panels for damage. Monitor electrical power consumption. ISO3: Check air filters for radioactive particles. Measure radioactivity in Nuclear Rods.	Interest & Skills: Hand-eye Coordination, Patience, Analytical Learning Style: Visual, Kinaesthetic
7	MED Medical (Doctor)	Goal: Monitor the health of the crew with a focus on radiation exposure How: Perform medical tests such as vision, hearing, respiration and skin temperature. Analyze medical results. Provide emergency medical help when needed.	Interest & Skills: Astronomy, Analytical, Observation Learning Style: Visual, Kinaesthetic
8	SW Space Weather (Solar Scientist)	Goal: Track solar storms that could affect the mission. How: Observe the Sun's surface. Count and measure sunspots. Look for evidence of solar storm eruptions and study the impact on Earth and Mars. Track the speed and direction of a solar flare for possible collision with Mars.	Interest & Skills: Health Science, Math Learning Style: Visual, Kinaesthetic
9	REM Remote (Geologist)	Goal: Compare and contrast the geology of Earth and Mars How: Work in a glovebox to examine the properties of rocks from the two planets. Test rock samples for magnetism and texture. Analyze Martian geology and determine the best location to launch a rover.	Interest & Skills: Mechanical, Analytical, Observation Learning Style: Visual, Kinaesthetic
10	MEDIA (News Reporter)	Goal: Gather and document mission incidents and write compelling stories. How: Interview crewmates, take photos and videos. Write post-mission reports and school newspaper article.	Interest & Skills: Talking and Listening, Journal Writing, Storytelling Learning Style: Auditory, Verbal