

Earth Odyssey

Crew Manifest



Mission Date: _____

School: _____

Grade: _____

Teacher's Name: _____

Number of Teachers: _____

Number of Girls: _____

Number of Boys: _____

Number of Adults: _____

	Space Station	Mission Control
COM		
SAT		
BIO		
ATMO		
GEO		
OCEAN		
SW		
CRYO		
NRG		

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The crew is customizable based upon the number and talents of your students. We recommend filling in the teams in a manner that fits the strengths of your students and teaching objectives.

To start, review the team descriptions on page 3. This will provide you with details needed to place your students on the most appropriate team. Then follow the guidelines below for completing the crew form on page 1.

Each TEAM includes at least one student on the Mission Control Crew and one student on the Space Station Crew.

- At least two (2) students, one student per crew, must be assigned to the first seven (7) teams.
- If you have 14-28 students, you should assign students to the top 7 teams to start.
 - Place one (1) student on each crew – Mission Control and Space Station for each team.
 - Once you have assigned one (1) student to the top 7 teams of both crews, go back and assign a second student to the other slot for each team. These students will work as partners.
- Remember each team member in Mission Control Crew must have a corresponding team member in the Space Station Crew.

If you have questions about completing the Crew Manifest please contact,
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Review each of these job descriptions to familiarize yourself with the type of work being conducted during the mission.

	Description	Job Titles
COM	<ul style="list-style-type: none"> •Provide communications support between astronauts and Mission Control. •Manage the distribution of assignments during an event and during some emergencies. •Provide critical satellite launch information. 	<p>Astronaut Engineer Astronaut Trainer</p>
SAT	<ul style="list-style-type: none"> •Monitor the Earth Observation Satellite network. •Build and test a remotely operated satellite to study Earth, installing critical equipment and components and retrieving data. 	<p>Computer Scientist Mechanical Engineer Electrical Engineer Structural Engineer</p>
BIO	<ul style="list-style-type: none"> •Study the impact of Earth's vegetation and photosynthesis on CO2 and climate change. •Observe population parameters and their environmental effects. 	<p>Biologist Earth Scientist Botanist Ecologist</p>
ATMO	<ul style="list-style-type: none"> •Examine the effect of greenhouse gases on global temperature. •Study precipitation, cloud cover and atmospheric aerosols. 	<p>Meteorologist Climatologist Earth Scientist Chemist Environmental Engineer</p>
GEO	<ul style="list-style-type: none"> •Observe ways in which land use and vegetation affect the carbon cycle and the greenhouse effect. 	<p>Geologist Seismologist Volcanologist Earth Scientist Spacecraft Engineer</p>
OCEAN	<ul style="list-style-type: none"> •Research how changes in temperature and CO2 in the atmosphere affect biological and physical properties of the ocean. 	<p>Oceanographer Marine Biologist Chemist Earth Scientist</p>
SW	<ul style="list-style-type: none"> •Examine sun spot activity, solar flares and coronal mass ejections and their effects on the Earth, satellites and the spacecraft. •Handle preparations for solar flare or space debris emergencies by determining location, severity and effects. 	<p>Electrical Engineer Solar Astronomer Physicist Meteorologist</p>
CRYO	<ul style="list-style-type: none"> •Study snow and ice cover, reflected sunlight and temperature to see how melting glaciers and sea ice affect sea level and water supply. 	<p>Glaciologist Earth Scientist Climatologist Spacecraft Engineer</p>
NRG	<ul style="list-style-type: none"> •Study solar power, incoming and outgoing radiation from the sun, and how radiations affects the Earth's global temperature 	<p>Earth Scientist Solar Astronomer</p>