

Rendezvous with a Comet

<i>CLC TEAM</i>	<i>TEAM RESPONSIBILITY</i>	<i>SPACE STATION SYSTEM</i>	<i>SYSTEM FUNCTION</i>
COMMUNICATION	Verbal information; Link between Space Station and Mission Control	Communication system	Information hub; Safety of the crew
DATA	Written information Visual imaging	Communication system	Information sharing; Documentation of detailed information ; Data storage; Safety
NAVIGATION	Identify objects in starfields for the purpose of orientation; Measure distance; Locate and identify specific objects; Launch long-range sensors	Guidance system	Movement toward a destination; Orientation; Safety
REMOTE	Monitor greenhouse atmosphere conditions: temperature, relative humidity Monitor air exchange Monitor crop growth	Atmosphere management system Respiration system Food production system	Oxygen-carbon dioxide exchange, storage, venting Environmental safety Crop growth: provision and production of food
LIFE SUPPORT	Monitor potable water storage tanks Check for contaminants in water supply Monitor air pressure, temperature, relative humidity Test solar array power panels	Water management system Atmosphere management system Power management system	Environmental safety Water storage Temperature, humidity, and air pressure control Electrical power generation
MEDICAL	Radiation badge check Monitor crew's vital signs: blood pressure, visual and auditory reaction times, respiration and heart rates	Atmosphere management system Human metabolic systems	Environmental safety, radiation detection; Monitor contaminants Health and safety of the crew
ISOLATION 1	Monitor trace gases; Storage of liquids; Inventory	Laboratory inventory system	Health and safety of the crew
ISOLATION 2	Monitor micrometeorites; Geology experiments	Guidance system Power system	Safety of the crew Solar array panel protection
ISOLATION 3	Monitor radiation levels	Atmosphere management system	Health and safety of the crew; Environmental safety
PROBE	Assemble, test and deploy probe	Scientific data collection system	Collect and transmit data

The International Space Station (ISS) is a scientific laboratory orbiting at about 200+ miles above the Earth. Multinational crews participate in: 1. basic scientific research, 2. innovative technology, 3. peaceful purposes, and 4. programs that benefit all humanity. Crews of up to six people will be stationed there for periods of three months. The CLC space station is a simulated model of a space station.

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