



Judging Overview

Preliminaries Judging Breakdown

At the preliminary competition, all teams will be visited by eight different teams of judges. Each judging team is responsible for judging a different aspect of the project. Six judging teams will be responsible for determining who moves on to the final competition. Three judging teams will be responsible for selecting honorable mention winners (two of the honorable mention judging teams are responsible for selecting two honorable mention winning teams).

Preliminaries Scoring (200 points possible)

200 points are possible in the preliminary competition. The top three scoring teams from each preliminary day will move onto the final competition. Final scores will be made available after the final competition, however team ranking will not be provided.

Final Competition Scoring (28 points possible)

Six teams will move onto the final competition. All finalist teams will be responsible for an oral presentation not to exceed ten minutes. This oral presentation will be given at the Final Competition in the last week of December. A panel of judges will then ask questions based on the presentation.

Teams may receive up to 25 points from their oral presentation. Additionally, finalist teams may receive up to three additional points based on their ranking from the Preliminaries Competition. For example, if you were ranked first place in the preliminary competition you will receive 3 additional points. Teams ranked second place will receive 2 points and third place teams will receive one additional point that will be added to the total score from the oral presentation at the finals.

Judging Categories

Finals Judging Categories

Each category below represents a judging team that will determine who moves on to the finals. There are more details regarding each category below.

- A) Physical Presentation (35 points)
- B) Base Design Requirements (30 points)
- C) Living Conditions (35 points)
- D) Society (35 points)
- E) Primary Mission (40 points)
- F) Secondary Mission (25 points)

Honorable Mention Judging Categories

There will be three additional judging teams that will select honorable mention teams in the following categories:

- Team Spirit
- Best Teamwork
- Best Physical Presentation
- Best Plan for Lunar Tourism
- Best Application of Robotics

***NOTE:** A finalist team is ineligible for an honorable mention award.

Judging Guidelines

The following information is intended to guide students in what to expect from the judges at the preliminary competition.

A) Physical Presentation (35 points)

Overall Model

Scale Drawings

Size Requirements

Cost Less Than \$50

Use of Recycled Materials

Mission Patch

Lunar Base Name

B) Base Design Requirements (30 points)

Habitation Module

Work Modules

Transportation Systems/Structures

Landing and Launch Site

Power Sources

Emergency Plans

C) Living Conditions (35 points)

Atmosphere Calculations (Air)

Food

Water

Waste Treatments

Gravity

Shielding

Location

D) Society (35 points)

Countries Involved and Personnel Qualifications

Job Assignments

Organization

Communication

Arts

Medical Care

Recreation Module and Plan

E) Primary Mission (40 points)

Mine Raw Materials for Helium 3

Helium 3 Processing

Helium 3 Storage

F) Secondary Mission (25 points)

Creativity

Novelty

Thoroughness

Supporting Rationale

Calculations