



Judging Overview

Preliminaries Scoring (200 points possible)

- The preliminaries will take place on December 7 & 8, 2009. Teams will present on only one date.
- 200 points are possible in the preliminary competition.
- The three teams with the highest overall scores from each day will move on to the final competition. There will be six finalist teams total.
- In the event of a tie, a seventh team will move onto the finals.

Final Competition Scoring (28 points possible)

- The finals will take place on December 31, 2009 and will consist of each finalist team delivering a 10-minute oral presentation.
- Each finalist team will be awarded one, two or three points based on what place they finished at the preliminaries (first place teams will receive three points, second place teams will receive two points and third place teams will receive 1 point). These points will be combined with the score from the oral presentation (25 points maximum) to determine the overall winning entry.
- The Aerospace Challenge champion will be the team with the highest score at the finals.
- In the event of a tie, the judges will be asked to rank the six finalists. The entry with the greatest combined total score and the highest rank will be announced as the winning entry.
- Final scores will be made available after the final competition, however team ranking will not be provided.
- **All judges' decisions are final.**

Judging Categories/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