

STARRY, STARRY NIGHT

Description: Identify celestial objects and answer questions about astronomical facts and concepts.

Number of Participants: 2

Competition:

Part I: Portable Planetarium

1. A team identifies the following in a portable planetarium: at least 5 constellations; at least 5 stars; at least 3 planets; at least 3 phases of the moon; possible constellations of the Orion sky; possibly constellations of the Ursa Major sky; possibly constellations of the Cassiopeia sky; possibly constellations of the Summer Triangle sky.
2. Penlights are provided for this part.

Part II: Written Questions

1. The team should be able to:
 - a. Distinguish between rotation and revolution
 - b. Demonstrate knowledge about units of time [day, month, year] and their astronomical bases.
 - c. Arrange a group of bodies according to relative sizes from largest to smallest
 - d. Arrange a group of objects according to their distances from either the sun or earth
 - e. Demonstrate knowledge about the celestial sphere and the following: zenith, horizon, four directions, ecliptic, celestial meridian, north celestial pole
 - f. Demonstrate knowledge about the members of the solar system
 - g. Know the phase of the moon on the day of the tournament
2. The Team turns in one [1] answer sheet with only one [1] answer per question and may consult quietly.
3. Teams may be shown photographs, diagrams, films, slides, or planetarium simulations of star fields and asked to identify indicated stars and constellations.

Scoring: Teams with the most points will be ranked highest.

Tie Breaker: Team scoring highest in the written part of the event.