

Sky Quest

1. **DESCRIPTION**: Teams will be tested on their knowledge of the solar system. Topics include the sun, moon, planets, rotation and revolution, moon phases, seasons, and identification of constellations/stars based on a provided list.
2. **ESSENTIAL STANDARDS ALIGNMENT**: 1.E.1, 3.E.1, 4.E.1
3. **TEAM OF UP TO**: 2
4. **MAXIMUM TIME**: 60 min.
5. **TEAMS**: Must bring writing instruments. No other resources are allowed.
6. **EVENT LEADERS**: Will provide a hands-on event with all necessary items, objects, materials, questions, and response sheets for participants to complete stations. Examples include but are not limited to: reference charts, posters, and models for event.
7. **SAFETY REQUIREMENTS**: None.
8. **IMPOUND**: No
9. **THE COMPETITION**: This event will be run in a station format. Teams will rotate through stations that assess any or all of the following topics:
 - a. The Earth/Sun relationship
 - i. Rotation and revolution
 - ii. Day/night, shadows
 - iii. Seasons
 - b. The Earth/Sun/Moon relationship
 - i. Phases and relative positions of all three bodies
 - ii. Tides
 - iii. Lunar and solar eclipses
 - c. Identification and understanding of the planets in our solar system, how they relate to each other in size, order from the sun, physical properties, and what is unique about each one.
 - d. Understanding other planetary objects in our Solar System, including planetoids, moons, asteroids, comets, and meteoroids; including where they are generally located and their individual characteristics.
 - e. Identification of *Major Constellations and their Alpha stars* from the list below:

Major Constellations and their Alpha star in parentheses, if noted:

Aquila	Cassiopeia	Hydra	Perseus
Andromeda	Capricornus	Leo (Regulus)	Scorpius (Antares)
Aquarius	Cepheus	Libra	Taurus (Aldebaran)
Bootes (Arcturus)	Cygnus (Deneb)	Lyra (Vega)	Ursa Major
Cancer	Draco	Orion	Ursa Minor (Polaris)
Canis Major (Sirius)	Gemini (Castor and Pollux)	Pegasus	Virgo (Spica)

10. **SCORING**:

Points will be awarded for the accuracy of responses. Ties will be broken by the accuracy or quality of responses to pre-selected questions chosen by the event leader.
11. **EVENT RESOURCES**:

See the Event Resources tab on our website at www.sciencenc.com for instructions, videos and more.