



STELLARXPLORERS

SPACE STEM PROGRAM

A STEM program of the
Air & Space Forces Association



StellarXplorers is a STEM program of the Air & Space Forces Association, created to introduce and inspire high school and middle school students toward careers in aerospace, aviation, and other science, technology, engineering, and math disciplines critical to our nation's future.

The StellarXplorers National Space Design Competition

The StellarXplorers National Space Design Competition is a space system design competition that challenges teams of students (grades 9-12) to solve orbit planning, satellite component, and launch vehicle selection scenarios presented in a series of online rounds. Teams must use the provided scenario (system's mission and constraints) to provide the best solution to a typical space design problem.

To prepare, students are provided with specific training in the use of industry-standard system simulation software – Systems Tool Kit (STK). Teams are also given access to an online textbook as a curriculum supplement and study resource for online quizzes given during the competition, as well a practice scenarios. **No prior experience is required to participate.** Students of all skill levels can be successful in the competition.

Participants

Teams can come from any organized youth organization such as a high school (including home schools), JROTC, Civil Air Patrol, scouting units, Boys & Girls Clubs, and other youth organizations. Teams must consist of an adult Team Director (usually a teacher) and two to six students. **For more information about registering, visit <https://stellarxplorers.org/registration/>.**

Schedule

Registration for the competition typically opens in May (teams must register by mid-October), and competitions take place once every other month from October through All teams are guaranteed three online rounds of competition before eliminations begin. A general schedule is outlined below:

Oct.	Nov. / Dec.	Jan. / Feb.	Feb. / Apr.
Practice Round 1	Practice Round 2	Practice Round 3	Semifinal Round
Round 1	Round 2	Round 3	National Finals

The top 10 scoring teams from the Semifinal Round qualify for an all-expenses-paid trip to Houston for the National Finals Competition in April.

Learn more at www.stellarxplorers.org | Contact info@stellarxplorers.org

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