



# 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.

### StellarCamps – Summer Camp Program

StellarCamps are fun space system design camps for 6-12 grade students. Participants can learn about various aspects of space system design, and there is **no prior experience required!** StellarCamps focus on the teamwork and collaborative problem-solving methods associated with sending objects to space, including satellite coverage, determining payload, and how to use Systems Tool Kit (STK) – an industry standard software used by professionals.

**No prior experience is required to participate.** Students of all skill levels can be successful in a StellarCamp.

### Participants

StellarCamps are designed for high school and middle school students who are just getting into aerospace or who have aerospace knowledge and want to learn more.

Camps are hosted by approved organizations and institutions that register with the StellarXplorers Program Office. These organizations include (but are not limited to) public/private schools, home schools, universities and colleges, JROTC units, Civil Air Patrol squadrons, scouting units, boys' and girls' clubs, AFA chapters, etc. Host organizations are responsible for registering attendees and providing instructors/resources to facilitate the camp at their location.

### Schedule

StellarCamps are designed for four days of instruction and one day for small-scale space design competition. Hosts select a specific week in which they wish to conduct the camp. Camps are always Monday through Friday and consisting of approximately 4-6 hours of instruction each day.

### Curriculum

StellarCamp covers information on orbits, history of space exploration, basic principles using Systems Toolkit (STK), satellites, rockets, and much more. Throughout the week, there are many hands-on activities and practice exercises to review concepts covered in the curriculum, in addition to fun ice-breakers and teambuilding activities.

Each camp concludes with a mini-competition scenario to challenge students on the skills obtained over the course of the week.

Learn more at [www.stellarxplorers.org](http://www.stellarxplorers.org) | Contact [info@stellarxplorers.org](mailto:info@stellarxplorers.org)

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