



FIRST ROVER RUCKUS:

The **FIRST** Tech Challenge Game for the 2018-19. Season

For more information, please visit the **FIRST** website <https://www.firstinspires.org/robotics/ftc/game-and-season>



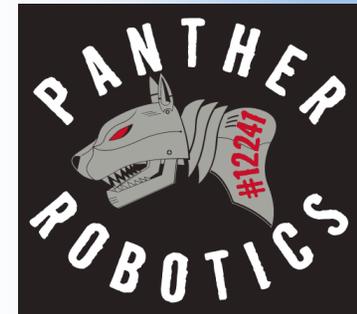
Paragon Science Academy

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Paragon Science Academy



WHO IS PARAGON SCIENCE ACADEMY? Paragon Science Academy is a charter school that opened in Chandler, AZ in 2008. Initially serving grades six through eight, Paragon added grades each year and currently enrolls grades K-12. We are part of the Sonoran Schools District. Our **OUR VISION** is to be America's premier STEM school organization, graduating future leaders, global citizens, and world-caliber talent. **OUR MISSION** is to foster critical thinking, engaging all students in a rigorous, STEM-focused, college-prep curriculum, delivered by a dedicated educational community that celebrates diversity, where students aspire to be tomorrow's leaders. We promote **STEM**. **WHAT IS STEM?** It is not just about the programs; it is about a STEM culture. Sonoran Schools' faculty, staff, students, parents, and community supporters embody a culture of STEM. We recognize the importance of STEM for the future of our nation and its workforce. STEM culture is not confined to science, technology, engineering, and mathematics classroom instructions but is the integration of STEM content into all subjects including art, physical education, social studies, and language arts. A STEM-focused education is also about providing students with the people and character skills they will need to be successful in a 21st century workforce such as problem-solving, critical thinking, collaboration, teamwork, and perseverance. These skills are developed in all grade levels and in all disciplines of knowledge at Sonoran Schools.

For more information, please visit our school website:
https://www.sonoranschools.org/psak12_home.aspx



WHAT IS FIRST? FIRST stands for "For Inspiration And Recognition of Science and Technology". It encourages youth involvement in Science, Technology, Engineering, and Mathematics. FIRST shares several values including respect, honesty, communication, and leadership which are all components of gracious professionalism. Gracious Professionalism is the cornerstone of the FIRST values. It promotes respect for everyone by emphasizing high-quality work, the value of others, and the respect of individuals and their communities. It stimulates the idea of strong competition and mutual gain to be intertwined rather than being separate notions.

WHAT IS FIRST TECH CHALLENGE (FTC)? It's way more than building robots. FIRST Tech Challenge teams (10+ members, grades 7-12) are challenged to design, build, program, and operate robots to compete in a head-to-head challenge in an alliance format. Participants call it "the hardest fun you'll ever have!" Guided by adult Coaches and Mentors, students develop STEM skills and practice engineering principles (like keeping an engineering notebook), while realizing the value of hard work, innovation, and sharing ideas. The robot kit is reusable from year-to-year and can be programmed using a variety of languages, including Java. Teams also must raise funds, design and market their team brand, and do community outreach for which they can win awards. Participants have access to tens of millions of dollars in college scholarships. Each season concludes with an exciting FIRST Championship.

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Not pictured : Lina Albayati, Mubtasim Chowdhury, and Ahmed Abdelrazek

WHO ARE WE? We are the Panther Robotics. Panther Robotics Team #12241 is a First Tech Challenge (FTC) robotics team based in Chandler, AZ. Since 2012, our team has participated in the FTC program and qualified for the State Tournament. We design, build, program and test robots each year to compete in various preliminaries across Arizona and try to qualify for the State Tournament. Aside from the technical aspects of the program, we work diligently to represent FIRST and spread gracious professionalism outside of the FIRST Tech Challenge. Our team won the 2013 State Tournament and qualified for the final West Regional Tournament in 2018. Our team is made up of high school students with varying interests, from building and coding to community outreach. In addition, our team currently consists of students from 18 different countries as a result of our efforts to include students from various different backgrounds in our schools FTC program. We believe that **"12241: STEM Is For everyone!"**

MISSION STATEMENT: We strive to represent the values of FIRST in all that we do. These values include: sportsmanship, gracious professionalism, integrity, and dedication. Our team strives to develop skills on both an individual and collective level. We strive to build an effective, respectful, honest and responsible team that communicates well and produces committed and inspired members. We use our cultural diversity to bring together people of different backgrounds to promote our **"12241: STEM Is For Everyone!"** belief. We do all of this to represent our team, school, local community, state, and the entirety of FIRST to the best of our abilities.

For more information, please visit our website
<https://www.paragonpanthers.org>