



DRIPPING SPRINGS DISTRICT EVENT FIRST ROBOTICS COMPETITION

Feb 28 – March 1, 2020 | Dripping Springs High School



WELCOME

Welcome to the inaugural *FIRST* in Texas Dripping Springs District Event! We are excited to see how teams prepared to compete in this year's game: *FIRST*® INFINITE RECHARGE. Teams from Texas and New Mexico are competing in 13 district events throughout March to earn their spot at the District Championship event in San Antonio. Without the support of our sponsors, partners, mentors, coaches, volunteers, teachers, and parents, this event would not be possible. Thank you for your generous gift of time and guidance to the youth of today who are destined to be the leaders of tomorrow.

George Tan
Central Area Program Delivery Partner
FIRST in Texas

SCHEDULE

FRIDAY FEBRUARY 28

5:00 PM Team Load-In
Inspections
10:00 PM Pits Close



SATURDAY FEBRUARY 29

8:00 AM Doors Open
Inspections
8:45 AM Practice Rounds
10:30 AM Opening Ceremonies
11:00 AM Qualification Matches
12:00 PM Lunch
1:00 PM Qualification Matches
8:00 PM Pits Close

SUNDAY MARCH 1

8:00 AM Doors Open
9:00 AM Opening Ceremonies
9:30 AM Qualification Matches
11:30 AM Alliance Selections
12:00 PM Lunch
1:00 PM Playoff Matches
4:15 PM Awards Ceremony
5:30 PM Pits Close

TEAMS

TEAM #	TEAM NAME	SCHOOL/ORGANIZATION	TEAM #	TEAM NAME	SCHOOL/ORGANIZATION
624	CRyptonite	Cinco Ranch H S	5503	Tiger Trons	Smithville H S
1477	Texas Torque	The Woodlands-College Park H S	5572	Rosbot Rottweilers	LEE H S
1817	RoboRaiders	Lubbock ISD, Lubbock-Cooper ISD, Premier H S, All Saints Episcopal H S	5829	AwtyBots	Awty International School
2613	Protobots	Van Horn H S	5866	Fe (Iron) Tigers	Frenship H S
2789	TEXPLOSION	Manor New Tech H S	5986	Iron Fangs	Central Catholic & Providence Catholic
2881	Lady Cans	Girl Scouts of Central Texas	6155	Elektrabots	Young Women's Leadership Academy
3240	Team Orion	John Jay H S	6315	Code Error 404	Harmony School of Excel—Laredo
3545	Bots in Blue	Stacy Jr Sr H S	6357	The Spring Konstant	Dripping Springs H S
3676	Redshift Robotics	Martin H S	6664	LADYBOTS	Sotomayer H S
3743	Eagle Bots	Salado H S	7138	Wing It	Canyon Lake H S
3834	Crab-bots	Calhoun H S	7621	Iron Rangers	Smithson Valley H S
3847	Spectrum	St. Agnes Academy & Strake Jesuit	7837	Mechanized Chaos	Lee Acad of Sci & Engineering
4610	BearTecs	Bastrop H S	7872	Wimberley Wavelengths	Wimberley H S
4641	United	Red Oak H S	8053	Rage Against the Machine	SA Community Team
4734	The Iron Plainsmen	Monterey Sr H S	8088	Bionic Panthers	Liberty Hill H S
5411	RoboTalons	Prosper H S	8114	Boerne Space Force	Champion H S & Boerne H S

THANK YOU TO OUR EVENT SPONSORS

CAPTAINS OF INNOVATION

ROBOT BOOSTERS

ROBOT EXPLORERS

BAE SYSTEMS

Booz | Allen | Hamilton



Special thanks to our Host - Dripping Springs High School

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ABOUT FIRST & FIRST ROBOTICS COMPETITION

FIRST® is a robotics community that prepares young people for the future. The world's leading youth-serving nonprofit advancing STEM education outcomes, FIRST designs mentor-guided research and robotics programs for kids from pre-kindergarten through high school. Boosted by a global support system of mentors, coaches, volunteers, alumni, and sponsors, teams conduct research, fundraise, design, and build robots of their creation. For 30 years, students from all walks of life have developed self-confidence in STEM, meaningful friendships, and valuable, real-world skills through FIRST that open pathways and help young people build a better future.

FIRST is a progression of four programs:

- **FIRST LEGO League Jr.** (Grades K-4)
- **FIRST LEGO League** (Grades 4-8)
- **FIRST Tech Challenge** (Grades 7-12)
- **FIRST Robotics Competition** (Grades 9-12)



FIRST Robotics Competition teams compete with 120-pound robots of their own design, combining the excitement of sport with the rigors of science and technology.

Students, Ages 14-18 (Grades 9-12), get to:

- Work alongside professional engineers
- Build and compete with a robot
- Learn to use sophisticated hardware and software
- Develop design, project management, programming, teamwork, strategic thinking, and *Coopertition* skills
- Earn a place in the FIRST Championship
- Access exclusive scholarships from hundreds of colleges and universities

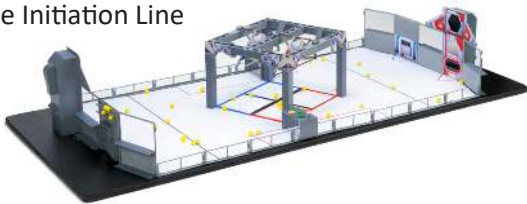
GAME DESCRIPTION: INFINITE RECHARGE

In **INFINITE RECHARGE** two alliances work to protect **FIRST** City from approaching asteroids caused by a distant space skirmish. Each alliance, along with their trusty droids, race to collect and score Power Cells in order to energize their Shield Generator for maximum protection. To activate sections of the Shield Generator, droids must manipulate their Control Panels after scoring a specific number of Power Cells. Near the end of the match, droids race to their Rendezvous Point to get their Shield Generator operational in order to protect the city.

:15 Autonomous:

Droids follow pre-programmed instructions and Alliances score points by:

- Scoring Power Cells in the Power Ports
- Moving from the Initiation Line



2:15 Driver-Controlled:

Drivers take control of droids & Alliances Score points by:

- Continuing to score Power Cells in Power Ports
- Completing Rotation Control task
- Completing Position Control task
- Hanging from the Generator Switch
- Getting the Generator Switch to the level position

The Alliance with the highest score at the end of the match wins!

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