



# AMERICAN CASTINGS TSA STEM CHALLENGE

## IGNITE STEM INNOVATION!

### Join the 2026 American Castings & Pryor Innovation Center STEM Challenge!

Are you ready to design, build, and compete? American Castings and the Pryor High School Innovation Center are thrilled to invite your school to participate in our inaugural yearly TSA STEM Challenge! We're aiming to spark a passion for Science, Technology, Engineering, and Mathematics through exciting, hands-on competitions.

This yearly competition aims to ignite students' interest in science, technology, engineering, and mathematics (STEM) through a hands-on, engaging project that culminates in a state-wide competition.

**Wednesday, January 28, 2026 | MidAmerica Expo Center**

- **CO<sub>2</sub> Dragster Races:** Experience the thrill of designing and racing high-speed CO<sub>2</sub> powered dragsters!
  - Single Elimination Tournament for both HS & MS divisions
  - No drawings will be required
  - Cash prizes will be awarded
- **Robotics Challenge:** Put your programming and engineering skills to the test with a dynamic robotics challenge.
  - Robot only
- **Flight Challenge:** Soar to new heights with a competition focused on flight and aerodynamics.
  - Timed flight only
  - No portfolio required
- **Drone Challenge (UAV):** Fly your drone over a timed obstacle course.
  - Obstacle course only
- **Structures Challenge:** Build and test your structural integrity with a challenging building competition.
  - Bring completed structure
- **Problem Solving:** Sharpen your critical thinking skills with engaging problem-solving scenarios.
  - All materials will be provided
- **Catapult:** Test your corn-hole skills with your catapult.
  - No portfolio required

#### Event Details:

- All events will follow the yearly TSA (Technology Student Association) challenge guidelines.
- TSA membership is not required to participate!
- Open to Middle School and High School students.
- Students can participate in multiple events.
- Cash Prizes for the Dragster Challenge! MS & HS Divisions:

**1st Place:** \$200 | **2nd Place:** \$100 | **3rd Place:** \$50 | **4th Place:** \$25

#### Registration:

- Entry fee: \$15 per student (covers materials and lunch).
- Students, mentors and volunteers will receive a Chick-fil-A sandwich, chips, and soft drink or water.



**Click the button above to register your teams**

