

**Region 5 PA-TSA Leadership Conference**  
**January 24th, 2026**  
**Downingtown STEM Academy**  
*Update on 9/19/25*

**Please continue to refresh the read, read, read ... this is a living document and the conference team may need to make adjustments as we continue planning the conference.**

**MIDDLE SCHOOL EVENTS**

Please carefully review the information below regarding competitive events for the upcoming Regional Conference. Changes have been made to the following events in order to ensure that the Conference can be completed and judged in the time allotted.

For specific rules (example: PreConference C.1, a - h or Semifinal A-D) ... Please refer to the Regulations and Rules section of the National Rules for what needs to be included.

All files must be labeled as **eventname\_RegionalIDNumber**

**Early Submission Link:**  
**Early Submission Date is Wednesday, January 14th, 2026, at 9:59 pm.**

Event	Early Submission	Onsite	Other Notes
<b>Audio Podcasting</b> (3 Teams)	Regulations and Requirements Pre-Conference A-F  Preliminary Round A		The URL must point to the team's entry. Entries that require a software download or a request that access be granted will not be judged.
<b>Biotechnology</b> 4 Teams		Regulations and Requirements Pre-conference A-E	
<b>CAD Foundations</b> 5 Individuals		Challenge on site that will consist of recreating a part(s) and drawings  2 hours to complete the challenge  No interview	Students must provide their own computer with CAD Software.  Wifi will be available for CAD events.
<b>Career Prep</b> 3 Individuals	Regulations and Requirements Pre-conference A - C	Mock Interview for the top 12.	Only the Top 12 will be allowed to participate in the onsite portion.

			Sign up for a presentation time on Sign Up Genius before the Conference.
<b>Challenging Technology Issues</b> 3 Teams		Regulations and Requirements Preliminary Round A-D	Prepare for all topics listed on the National Website.  Sign up for a presentation time on Sign Up Genius before the Conference.  Time limits will follow those laid out in the National Rules.
<b>Chapter Team Written</b> 9 Individuals	Test only at the home location.		Teams of 6 can sign up for an exhibition finalist challenge  Sign up for a presentation time on Sign Up Genius before the Conference.
<b>Children's Stories</b> 3 Teams		Regulations and Requirements Pre-Conference A1-15 B  Semifinalist Presentation/Interview - 5 minutes with judges  Sign up for a presentation time on Sign Up Genius before the Conference.	Do not pay for professional hard bookbinding or printing for the Region 5 Conference. A color computer-printed copy or a hand-made copy of your book is preferred
<b>Coding</b> 4 Teams	Test only at the home location.	Regulations and Requirements Semifinal Round A-H Top 12 teams	Students must provide their own computer.  Participants do NOT have access to the internet during the

			event. The use of hot spots is not permitted.
<b>Community Service Video</b> 3 Teams	Regulations and Requirements  Pre-conference A - H		URL must lead directly to the participant's entry.  Entries that require a software download or a request that access be granted will not be judged.
<b>Cybersecurity</b> 4 Individuals	Test only at the home location.		
<b>Data Science and Analysis</b> 3 Teams		Regulations and Requirements Preliminary Round A-C	
<b>Digital Photography</b> 6 Individuals	Regulations and Requirements Pre-conference A-E		
<b>Dragster</b> 9 Individuals		Regulations and Requirements Preliminary Round A-C	All cars passing a safety inspection will be raced at least once.
<b>Electrical Applications</b> 4 Teams	Test only at the home location.		
<b>Flight</b> 5 Individuals		Procedure Preliminary Round A-B  Regulations and Requirements Preliminary Round A-B	Trimming time will be provided. Check the conference schedule.  Submit the portfolio and plane when signing up for flight time.  The number of flights is to be determined by the event coordinator.
<b>Forensic Technology</b> 3 Teams	Test only at the home location.	Semi-final round of the top 12 teams.  Regulations and Requirements	Sign up for a crime scene time on Sign Up Genius before the Conference

		Semi-Final A-D	<a href="#">Recommended Kit</a>
<b>Inventions and Innovations</b> 3 Teams		Regulations and Requirements Pre-Conference A-E  Procedure Semi Final Round A-E	All teams will present for a max of 7 minutes.  Sign up for a presentation time on Sign Up Genius before the Conference.
<b>Leadership Strategies</b> 4 Teams		Regulations and Requirements A-E & G-H	Bring pencils and blank notecards.  Sign up for a presentation time on Sign Up Genius before the Conference.
<b>Mass Production</b> 3 Teams		Regulations and Requirements Pre-Conference A-B  Semifinal Round B-G	Sign up for a presentation time on Sign Up Genius before the Conference.
<b>Mechanical Engineering</b> 3 Teams		Procedure Preliminary Round A-S  Regulations and Requirements preliminary Round A-N	Sign up for a presentation time on Sign Up Genius before the Conference.
<b>Medical Technology</b> 4 Teams		Regulations and Requirements Pre-Conference A-D	
<b>Off The Grid</b> 3 Teams		Regulations and Requirements Pre-conference A-C  Semifinal Round Presentation & Interview	All teams will present for 7 minutes.  Sign up for a presentation time on Sign Up Genius

			before the Conference.
<b>PA- Logo Design</b> 2 Individuals	Regulations & Requirements PDF Portfolio Rules & Regulations B1:A-F		
<b>PA Sky Eagle</b> 5 Individuals		Planes need to be constructed before the conference.  Test flights only on-site	The number of flights is to be determined by the event coordinator.  Sign up for a presentation time on Sign Up Genius before the Conference.
<b>PA Snapshot</b> 6 Individuals	Rules & Regulations PDF Portfolio Regulations & Requirements A-C:1		
<b>Prepared Speech</b> 3 Individuals		Regulations and Requirements Preliminary Round A-L	Sign up for a presentation time on Sign Up Genius before the Conference.
<b>Problem Solving</b> 2 Teams		Onsite Challenge  Regulations and Requirements Preliminary Round A-H	The tool kit list is a “suggested” list, not a required list. To that end, participants do not have to have all tools listed but CANNOT expand their tool kit to include tools not included on the provided list. Any extra tools will not be permitted. Participants will not be permitted to compete without safety glasses, 1 pair of glasses/team member. Teams also must have a cutting surface that prevents table top marring, if their cutting devices necessitate (knives = cutting surface, scissors ≠ cutting surface). Masking tape is the only tape permitted. Per the rules, if a team does not have a tool kit, the team will not be permitted to compete. Tool kits cannot be shared between teams.

<b>Promotional Marketing</b> 5 Individuals	Regulations and Requirements Preliminary Round A-H		The URL submission of the digital signage must point directly to the individual's entry. Entries that require an access request to be granted will not be judged.
<b>Robotics</b> 3 Teams		Regulations and Requirements Preliminary Round Robotics Pit and Safety Procedures A-G Robot Specifications A-G	Sign up for a testing time on Sign Up Genius before the Conference
<b>SolarRacer</b> 4 Teams		Regulations and Requirements Pre-Conference A-I  Preliminary Round A-D.1-5  No display or shoebox needed.	Sign up for a presentation time on Sign Up Genius before the Conference.  Please bring a battery pack and (2) two standard AA 1.5V batteries according to Regulations.
<b>STEM Animation</b> 3 Teams	Regulations and Requirements Preliminary Round A-B		The URL submission of the digital signage must point directly to the individual's entry. Entries that require an access request to be granted will not be judged.
<b>Structural Engineering</b> 5 Teams		Procedure Pre-Conference A-G Preliminary Round A-E  Regulations and Requirements Pre-Conference A	All structures meeting requirements will be tested.
<b>Tech Bowl - TEAM</b>	Test only at the home location.	The top 8 Teams will be invited	

3 Teams		to participate in an on-site exhibition quiz bowl	
<b>Video Game Design</b> 3 Teams	Regulations and Requirements Pre-Conference/ Preliminary Round B-D  Regulations and Requirements A-F		The URL must point to the team's entry. Entries that require a software download, running an executable file (.exe), request that access be granted will not be judged.
<b>Website Design</b> 3 Teams	Regulations and Requirements Pre-Conference/Preliminary Round A-J		The URL must point to the main page of the team's entry. Entries that are password-protected or require a request for access be granted will not be judged