



**Delaware 2012 Middle School TSA Competitive Events Guide: Updates At-A-Glance**

This chart is intended as a “At-A- Glance” look at the middle school events for the 2012 Delaware TSA State Conference. Please be sure to quickly update your National chapter affiliation in order to get the detailed rules and guidelines. Should you have any questions, please contact Mike Fitzgerald at 302.857.3320 or at [mfitzgerald@doe.k12.de.us](mailto:mfitzgerald@doe.k12.de.us). Please note that this is intended to be a guide in helping organize and prepare your students for state conference. NOTE: Events in **BOLD** require State Advisor approval to qualify for participation at the National TSA conference.

Static Events	Due to DDOE on March 23	State Conference	Event Updates & Notes
Career Prep	<i>Submit written &amp; all materials</i>	Awards announced	N/A: Onsite mock interview. Choose one of these careers: Mechanical engineer, Architect, Telecommunications specialist, Construction manager, Cardiologist
Communication Challenge	<i>Submit off-site design solution &amp; all materials</i>	Awards announced	N/A: Onsite semifinalist problem
Community Service Video	<i>Submit all materials</i>	Awards announced	New event for 2011 - Create and submit a finished video, capable of being played on a standalone DVD player that depicts your local TSA chapter’s service with the American Cancer Society, national TSA’s service partner
<b>Digital Photography</b>	<i>Submit all materials</i>	Awards announced	Theme: The Art and Science of Technology. Regulation A.1.b.ii. on page 102 should state: <ul style="list-style-type: none"> <li>• One candid photo</li> <li>• One still life photo</li> <li>• One posed portrait</li> <li>• One photo of the student’s choice</li> </ul> The album layout on page 106 should include two more pages before the <i>Resource page</i> : <ol style="list-style-type: none"> <li>1) Page 8 – Description of the fourth original, unedited photograph and the edited version of the photograph (student’s choice) that will be on page nine; explain in detail (3-4 paragraphs) how the fourth photograph was changed from the original to the edited version.</li> <li>2) Page 9 – Unedited photograph #4 and edited photograph #4 (student’s choice)</li> </ol> The album should have a total of ten pages, plus the cover page.
Inventions & Innovations	<i>Submit all materials</i>	Awards announced	N/A: Onsite interview/presentation
Promotional Design	<i>Submit all materials</i>	Awards announced	New event for 2011 - Participants create and produce a color pin design that is appropriate for trading at the national TSA conference.

Technical Design	<i>Submit off-site design solution &amp; all materials</i>	Awards announced	
Video Game Design	<i>Submit all materials</i>	Awards announced	N/A: Onsite interview/presentation. New name - Electronic Gaming is now Video Game Design.
Website Design	<i>Submit website to <a href="mailto:mfitzgerald@doe.k12.de.us">mfitzgerald@doe.k12.de.us</a>. Submit all materials</i>	Awards announced	N/A: Onsite interview. To obtain the 2011-2012 design brief, <a href="#">click here</a>
<b>April 26 "Live" Events</b>	<b>Due to DDOE on March 23</b>	<b>Event Description</b>	<b>Event Updates &amp; Notes</b>
Dragster Design		Onsite live event	N/A: Wind tunnel testing
Electrical Applications	Submit written exam	Onsite live event	New name - Zap It! Has been dropped, the event is now called Electrical Applications
Flight		Onsite live event	
Maglev Vehicles – <i>DE only</i>		Onsite live event	<a href="#">Delaware only event</a>
Model Rocketry – <i>DE only</i>		Onsite live event	<a href="#">Delaware only event</a>
Problem Solving		Onsite live event	
Structural Engineering		Onsite live event	New name - Engineering Structure is now named Structural Engineering.
<b>System Control Technology</b>		Onsite live event	
Technology Bowl	Submit written exam	Onsite live event	
Transportation Systems		Onsite live event	New event for 2011 - Participants apply and document the engineering design process, mathematical principals and scientific concepts used in the research, design, construction, testing and evaluation of a rubber band-powered boat. Performance ratings of the boat will be based on a combination of speed and payload capability measurements.
<b>April 27 "Live" Events</b>	<b>Due to DDOE on March 23</b>	<b>Event Description</b>	<b>Event Updates &amp; Notes</b>
<b>Challenging Technology Issues</b>		Onsite live event	
Chapter Team	Submit written exam	Onsite live event	
Prepared Speech		Onsite live event	Theme: The Road to Success
<b>Techno Talk</b>		Onsite live event	



**Delaware 2012 High School TSA Competitive Events Guide: Updates At-A-Glance**

This chart is intended as a “At-A- Glance” look at the high school events for the 2012 Delaware TSA State Conference. Please be sure to quickly update your National chapter affiliation in order to get the detailed rules and guidelines. Should you have any questions, please contact Mike Fitzgerald at 302.857.3320 or at [mfitzgerald@doe.k12.de.us](mailto:mfitzgerald@doe.k12.de.us). Please note that this is intended to be a guide in helping organize and prepare your students for state conference. NOTE: Events in **BOLD** require State Advisor approval to qualify for participation at the National TSA conference.

Static Events	Due to DDOE on March 23	State Conference	Event Updates & Notes
<b>CAD 2D – Architecture</b>	<i>Submit off-site design solution &amp; all materials</i>	Awards announced	
<b>CAD 3D – Engineering</b>	<i>Submit off-site design solution &amp; all materials</i>	Awards announced	
Career Comparisons	<i>Submit written &amp; all materials</i>	Awards announced	N/A: Onsite mock interview
<b>Desktop Publishing</b>	<i>Submit off-site design solution &amp; all materials</i>	Awards announced	Theme: Beyond Tradition
<b>Digital Video Production</b>	<i>Submit all materials</i>	Awards announced	Theme: Suspense
Engineering Design	<i>Submit all materials</i>	Awards announced	N/A: Onsite presentation/interview
Fashion Design	<i>Submit all materials</i>	Awards announced	N/A: On-site presentation/interview. The theme challenge is to design two outfits that correspond to a specific historical period, such as the Victorian era, or any other historical period with a particular fashion style
Future Technology Teacher	<i>Submit all materials</i>	Awards announced	N/A: On-site presentation/interview
<b>Music Production</b>	<i>Submit all materials</i>	Awards announced	N/A: On-site presentation/interview
Photographic Technology	<i>Submit all materials</i>	Awards announced	N/A: On-site challenge. Theme: Perspectives
Promotional Graphics	<i>Submit all materials</i>	Awards announced	Options: On Demand Video; Biotechnology Design; Prepared Presentation
Technical Sketching & Applications	<i>Submit written, off-site design solution &amp; all materials</i>	Awards announced	Sketching only. Drafting tools prohibited
<b>Video Game Design</b>	<i>Submit all materials</i>	Awards announced	N/A: On-site presentation/interview
Webmaster	<i>Submit website to <a href="mailto:mfitzgerald@doe.k12.de.us">mfitzgerald@doe.k12.de.us</a>. Submit all materials</i>	Awards announced	N/A: On-site presentation/interview. To obtain the 2011-2012 design brief, <a href="#">click here</a>
April 26 “Live” Events	Due to DDOE on March 23	Event Description	Event Updates & Notes
Construction Renovation		Onsite live event	Regulation C3 – Free standing is defined as relying solely on the force of gravity to stay in place; not supported by anything. Foam core boards should

			be hinged and remain within the size guidelines. To obtain the 2012 design problem <a href="#">click here</a>
Dragster Design		Onsite live event	N/A: Wind tunnel testing. Insertion to the Dragster Design rating form, between Tolerance violation and Drawing: Dragster appearance...15 pts
Flight Endurance		Onsite live event	
Maglev Vehicles - <i>DE only</i>		Onsite live event	<a href="#">Delaware only event</a>
Model Rocketry - <i>DE only</i>		Onsite live event	<a href="#">Delaware only event</a>
Structural Engineering		Onsite live event	
<b>System Control Technology</b>		Onsite live event	
Technology Bowl	Submit written exam	Onsite live event	
Technology Problem Solving		Onsite live event	
Transportation Modeling		Onsite live event	Theme: pre-1960 antique vehicle. M2. The body of the vehicle model must be made from wood. While using plastic model car bodies is not allowed (including hoods, fenders, etc.), it is permissible to use manufactured parts, such as body strengtheners, plastic canopy, exhausts, air foils/spoilers, head and tail lights, windshields, seats, mirrors, and antennae. They may be attached to or enclosed within the vehicle and may be made of materials other than wood, with the exception of glass or liquids. These parts must be fastened securely unless they are to be removed prior to the timed run. Any removable parts must be identified as removable on the drawings
<b>April 27 "Live" Events</b>	<b>Due to DDOE on March 23</b>	<b>Event Description</b>	<b>Event Updates &amp; Notes</b>
Chapter Team	Submit written exam	Onsite live event	
<b>Debating Technological Issues</b>		Onsite live event	Team members prepare to debate both pro and con views of a subtopic (which falls under a general topic) against a team from another chapter. The 2011 topic is Biotechnology, with these subtopics: 1) Is it appropriate to use emerging synthetic genomic engineering technology to build new forms of "life"? 2) Should genetic engineering techniques and processes be used in agriculture? 3) Should companies that develop genetically altered plants and seeds be allowed to have a monopoly on the products they develop?
<b>Extemporaneous Presentation</b>		Onsite live event	
<b>Prepared Presentation</b>		Onsite live event	Participant is responsible to bring A/V equipment and a 25' extension cord. Theme: The Road to Success