

West Virginia TSA



2011-2012 High School Level

State Supplement to the National Competitive Events Guidelines

The West Virginia TSA High School Competitive Events Guidelines will adhere to the National TSA Competitive Events Guidelines with the following exceptions:

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**WEST VIRGINIA TSA COMPETITIVE EVENTS
GENERAL RULES**

I. The approved High School competitive events for West Virginia are:

A. Individual Entries:

# of Entries in WV	Name of Contest	# Reps National Conference
3	Career Comparisons	1
3	CAD Architecture with Animation	1
3	CAD Engineering with Animation	1
3	Creed Recital (State level only)	0
3	Desktop Publishing	1
Unlimited	Dragster Design	1
3	Essays on Technology	1
3	Extemporaneous Speech	1
3	Flight Endurance	1
3	Future Technology Teacher	1
Unlimited	Mousetrap Vehicle (State level only)	0
3	Photographic Technology	1
3	Prepared Presentation	1
Unlimited	Promotional Graphics	1
3 (unlimited test)	Technical Sketching and Application	1
(unlimited test)	Technology Bowl Written	1
Unlimited	Transportation Modeling	1

B. Team Entries:

# of Entries in WV	Name of Contest	# Reps National Conference
3 teams of 2+	Biotechnology Design	2
1 team of 6	Chapter Team	6
1 team of 2-5	Construction Renovation	2
3 teams of 2	Debating Technological Issues	3
3 teams of 3-5	Engineering Design	3
3 teams of 2-4	Fashion Design	3
1 team of 2	Radio Controlled Transportation	2
3 teams of 2	Structural Engineering	2
1 team of 3	System Control Technology	3
1 team of 3	Technology Bowl Oral	3
1 team of 2	Technology Problem Solving	2
1 team of 2+	Video Game Design	2
1 team 3-5	Webmaster	3

C. Chapter Entries:

# of Entries in WV	Name of Contest	# Reps National Conference
3 teams	Animatronics	3
3 teams	Architectural Model	1
3 teams	Digital Video Production	1
3 teams	Manufacturing Prototype	1
3 teams	Music Production	1
3 team	On Demand Video	1
3 teams	SciViz	3

II. Levels of Competition

A. The following breakdown of grades is used as a basis for competitive event entries:

1. High School - Grades 6, 7, 8, 9*
2. High School - Grades 9*, 10, 11, 12

*Ninth-graders must compete at the level in which the chapter affiliates. For example, if the ninth grade is housed in a high school (9-12), the student must compete at Level II. If the ninth grade is housed at a (6-9 or 7-9) school, the ninth grade student must compete at Level I. If the school has a 1-12 or another configuration other than the examples above, call the State TSA Office to obtain the appropriate level for the ninth grade to compete.

B. Team or chapter events will enter the appropriate Division, according to official school classification.

III. Participation

- A. Students and advisors must be dues paying members and registered at the State Conference in order to enter a competitive event (e.g., displays, Dragster Design, etc.).
- B. WV TSA members, advisors and chapters must be in good standing with WV TSA in order to enter any competitive event.
- C. Contestants are entitled to have only one (1) entry per event. (i.e. only one Dragster, etc.)
- D. A contestant entry must be self-designed and/or constructed during the **current** TSA year and **not previously entered in any TSA competition.**
- E. Conference participants may enter a maximum of six (6) competitive events.

IV. Special Rules or Changes to National Events for West Virginia Events:

- A. Webmaster The URL for the school's technology education web site must be e-mailed to webmaster@wvtsa.org by midnight **on March 12**. The web site must be finished and accessible by that time, and no changes can be made after that time.
- B. Flight Endurance Gliders are to be constructed and assembled at the home school and

brought to the conference ready to fly. Gliders may be flown outside IF an appropriate indoor facility cannot be obtained. If so, we will provide a tabletop, on ground level, as a smooth runway. If weather conditions impede flights, the flight schedule may be altered or cancelled.

V. Participation

- A. It is the intent of West Virginia TSA to involve as many different West Virginia TSA members as possible for competitive events and recognition, using fair-play practices and guidelines.
- B. In the event a question or problem should arise that has not been covered in the "General Rules" or the individual competitive event guidelines, the State Advisor will render a decision for the conference.
- C. Should a conflict develop that prevents a member from participating in more than one event, the contestant will decide which contest entry will be eliminated.
- D. It will be the individual responsibility of all contestants to obtain all rules and guidelines for concerned events. Lack of knowledge or understanding about a particular event will not be reason or excuse for individual change or adjustment consideration.
- E. There will be a general briefing at the beginning of each contest concerning the rules and logistics of that particular event. The contestants must be present at the appointed time and place in order to be entered in that particular contest. (Failure to do so may disqualify participation in that event.)
- F. Entry blanks for participation in competitive activities must be submitted to the State Advisor by the deadline established by the State Advisor.
- G. Contestants must work independently, without assistance from judges, teachers, fellow students or observers. Participants may be disqualified for receiving such assistance.
- H. Cameras and recording devices will not be allowed in any contest area without the consent of the contest chairperson.
- I. Decisions of the judges will be final. Final interpretations of all contest rules will be made by the State.
- J. Any participants who violate the rules will either have 20 points deducted or be disqualified at the judges discretion. Judges must inform event coordinator of the rules violation or disqualification, and the reason should be noted on the supplied sheet.
- K. Contest concerns for any event should be submitted in writing to the West Virginia Technology Student Association, West Virginia Department of Education, 1900 Kanawha Blvd, East, Bldg 6, Room 243, Charleston, WV 25305-0330.
- L. Conference Dress Code
 - 1. Chapter advisors are responsible for seeing that all delegates wear appropriate dress for conference activities and events. From the first scheduled TSA activity throughout the conference, all registrants shall adhere to the dress code requirements as listed in the Events Guidelines.
 - 2. Students are allowed to dress more formally than required, but students that are

dressed LESS formally than specified in the event rules will be allowed to compete, but will lose twenty (20) points.

Official TSA Attire (most formal)

Blazer: navy blue with TSA patch
Ties: scarlet red with TSA logo (men and women)
Shirt or blouse: white, with collar
Pants or skirt: light gray
Shoes: black dress shoes (athletic shoes, army boots, work boots, or open-toed shoes are NOT acceptable)
Dark socks: men only

Professional Attire (less formal)

Shirt or blouse: button-up with turn-down collar (t-shirts and polo/golf shirts are NOT acceptable)
Tie: men only
Dress pants: jeans, baggy pants, pants with exterior pockets are NOT acceptable
Dresses or skirts: length must be at least even with the tips of one's fingers
Dark socks: black or dark blue (men only)
Shoes: dress shoes or dress boots (athletic shoes, army boots, work boots, or open-toed shoes are NOT acceptable)

Casual Attire (least formal)

Same as professional attire described above except that the shirt or blouse can be a polo or golf shirt.

3. Casual TSA dress or chapter T-shirts will be acceptable attire during the mixers and chapter meetings.
4. **NOTE: Due to the environment at Cedar Lakes, neat, clean athletic shoes will be allowed, if the weather is bad. Realize, though that this is not allowed on the National level.**
5. Registrants must wear conference identification badges at all times!

Creed Recital

OVERVIEW

The purpose of the Creed contest is to provide a means for NEW TSA members to demonstrate their ability to recite the TSA Creed.

ELIGIBILITY FOR ENTRY

Entries are limited to three (3) first year individuals per chapter. Membership at the Middle School level disqualifies participants from this event.

TIME LIMITATIONS

While this is not a "timed" event, each contestant will be given adequate time to recite the Creed.

ATTIRE

Official or Professional attire as described in General Information is the minimum requirement.

SPECIFIC REGULATIONS

- A. The contest coordinator will introduce the contestant by entry number only. The contestant may begin by saying, "The Technology Student Association Creed..."
- B. No written material or notes may be used.

PROCEDURES

- A. Registration - Contest participants must register for the event in accordance with procedures established for each conference.
- B. Contest participants should assemble in the general area of the contest prior to time designated for the contest.

CRITERIA FOR JUDGING

- A. Each judge will complete, without consultation, a rating sheet for each entry. The rating sheet points for oral competition will be assigned based on the number of words missed in each paragraph.
- B. Scoring: For the six paragraphs there are 168 points. One (1) point for each word. Should a contestant fail to say the word he or she will lose a point. There will be 32 points for clarity, projection and force of speech. Total possible score will be 200 points.
- C. The contestant may say a word wrong or may use a different word, but will be penalized for it.
- D. When a contestant says a paragraph out of order, he/she will be notified at the end of the paragraph, so that if he/she realize their mistake, they can go back and correct it with the loss of only 10 points.
- E. Points awarded will be totaled and the sheet given to the contest coordinator.
- F. In case of a tie, the judges shall consult each other to ascertain the winner.
- G. All judges' ratings and results are to remain confidential.

H. The official version of the Creed to be used for competition is as follows:

The TSA Creed

I believe that Technology Education holds an important place in my life in the technical world. I believe there is a need for the development of good attitudes concerning work, tools, materials, experimentation, and processes of industry.

Guided by my teachers, artisans from industry, and my own initiative, I will strive to do my best in making my school, community, state, and nation better places in which to live.

I will accept the responsibilities that are mine. I will accept the theories that are supported by proper evidence. I will explore on my own for safer, more effective methods of working and living.

I will strive to develop a cooperative attitude and will exercise tact and respect for other individuals.

Through the work of my hands and mind, I will express my ideas to the best of my ability.

I will make it my goal to do better each day the task before me, and to be steadfast in my belief in my God, and my fellow Americans.

**WV TSA CREED RECITAL- HIGH SCHOOL
OFFICIAL RATING FORM**

ENTRANT'S ID										
EVALUATION CRITERIA										
1st paragraph.....37 pts.										
2nd paragraph.....32 pts.										
3rd paragraph.....34 pts.										
4th paragraph.....17 pts.										
5th paragraph.....19 pts.										
6th paragraph.....29 pts.										
Clarity Enunciation.....7 pts.										
Projection & Force.....10 pts.										
Poise (Confidence, body control, posture).....5 pts.										
Personal Appearance, Grooming, Appropriate attire.....10 pts.										
Rules Violation.....Minus 20 pts.										
Total.....200 pts. max.										

I certify these results to be true and accurate to the best of my knowledge and ability.

Evaluator's Signature

Mousetrap Vehicle

OVERVIEW

The Mousetrap Vehicle event provides an opportunity to use critical thinking skills in developing a solution to a specific problem in transportation technology.

ELIGIBILITY FOR ENTRY

Entries are limited to three individual entries per chapter. See "General Rules" for additional information.

ATTIRE

Casual attire as described in General Information is the minimum requirement.

LIMITATIONS

- A. This problem focuses on the design and construction of an experimental self-propelled vehicle powered by a Victor mousetrap. The mousetrap must remain as purchased. This means that the trap base and spring cannot be altered in any way. The only acceptable alteration to the trap itself will be an extension of the trap bar.
 1. The spring must remain on the trap.
 2. The spring cannot be wound tighter.
 3. The use of rubber bands, elastic cords, or other springs that are directly related to the movement of the trap bar will not be allowed. The original trap bar will be the only power mechanism for the vehicle.
 4. It is permissible to use glue or mechanical fasteners to adhere the base of the vehicle.
 5. The use of gear assemblies in the drive train to provide additional mechanical advantage will be allowed.

SPECIFIC REGULATIONS

- A. The frame and wheels must be made from materials the contestant has designed and assembled. Commercially made materials will not be accepted. However, the student may engineer the frame and wheels from a variety of materials or everyday products. Materials would be such that they could be shaped, formed, or molded into parts that can be used as wheels. Examples would be:
 1. Acceptable materials: Paper, wood, or cardboard, Small cans, Stereo records, Rubber balls
 2. Non-acceptable materials: Metric 500 or model kit wheels (commercially made wheels), Plastic model kit frames.
- B. The vehicle should be designed to run on a wood, tile, or concrete floor. The type of floor used during the competition will be announced at the contest. Therefore, all vehicles need to be ready to compete on any of these surfaces.
- C. Overall dimensions of the vehicle shall not exceed:

Length	24 inches (with trap bar extended)
Width	12 inches
Height	18 inches (from the floor to the highest arc of the trap bar or any other portion of the vehicle.)

- D. The track will be eight feet wide. If the vehicle leaves the confines of the track, the distance will be marked where any part of the vehicle leaves the track boundary. The vehicle should be designed to stay within the eight-foot track lane. The distance the vehicle travels will be measured from the starting line to the front of the vehicle.
- E. The students will not be allowed to remove, alter, or modify their vehicle in any way after the vehicle has been registered. Any vehicles damaged during the race will be judged by the contest coordinator to determine if the vehicle was damaged by conference personnel or by design fault. A ruling as to whether or not the vehicle will be held from further competition or repaired by the student will be made at this time.
- F. Students will be allowed to handle their vehicles at the beginning of the race. They will be allowed to set the trap and place the vehicle down behind the starting line. A designated judge for the contest will release the vehicle at the designated starting time. The distance traveled will be measured and the vehicle removed from the track by conference personnel.
- G. Once the vehicle is set in motion, it cannot be remotely controlled or touched until it has come to rest for at least five seconds when the run will then be concluded.

PROCEDURE

- A. Registration - Contest participants must register for the event in accordance with procedures established for the conference.
- B. Contestants must have their mousetrap vehicle checked into the judging room as specified in the conference program before the published deadline.
- C. Contest participants must assemble in the general area of the contest prior to the time designated for the contest.

CRITERIA FOR JUDGING

- A. The vehicle will run two races with points for both distances being recorded for competition.
- B. Students will receive .3 point per foot traveled. Any portion of a foot under 6" will not be counted. Any portion of a foot over 6" will be given the .3 point.

**WV TSA MOUSETRAP VEHICLE - HIGH SCHOOL
OFFICIAL RATING FORM**

ENTRANT'S ID										
EVALUATION CRITERIA										
Appearance.....10 pts. max. Workmanship.....5 pts. Aesthetics.....5 pts.										
Technical Creativity..30 pts. max.										
Race.....60 pts. max. 1st race 2nd race										
Rule Violation.....Minus 20 pts.										
Total.....100 pts. max.										

I certify these results to be true and accurate to the best of my knowledge and ability.

Evaluator's Signature