

ROLAND



TECHNOLOGY STUDENT ASSOCIATION



High School

2008

September 16, 17, 18

Thank you for your interest in the Roland Technology Student Association and the Roland Technology Challenge. Before you select your events to compete in please be aware of the following information and requirements.

- The rules in this handbook have been copied from the official TSA guidelines book. Due to local resources and limitations, the rules may be altered as needed, even after this handbook has been produced.
- Students must currently be enrolled in Technology Education or have previously had one year of Technology Education.
- Students must be able to maintain a "C" average to compete in TSA competitions.
- Students are only allowed to enter/compete in five events at the Roland Technology Challenge.
- Students competing in the Roland Technology Challenge must have participated in the Great American Fundraising campaign.
- Students must be sign up and have paid registration dues by August 31, 2008.
- Measures have been taken to ensure the Roland Technology Challenge is a fair, open contest for all legitimate participants.
- No awards will be given as a result of this contest.
- Individual 1st place = 4.0 points
- Individual 2nd place = 2.0 points
- Individual 3rd place = 1.0 points
- Team 1st place = 3.0 points (each)
- Team 2nd place = 1.5 points (each)
- Team 3rd place = .75 points (each)

1. On-Demand Video

Drop off Tuesday September 16 in the Tech Ed building by 8:45 A.M.

For the purpose of the RTC the rules and procedures will be as follows.

Participants create a two minute video over the topic of their choosing. Raw video (total unedited video) must contain a minimum of two minutes and a maximum of 5 minutes.

1. All audio, video, and graphics must be filmed, photographed, and created by the author (student). Any piece of unoriginal multimedia may result in a DQ.
2. The raw video of the project must immediately follow the edited piece. A black screen of 10 seconds must separate the edited project from the raw video.
3. The video may contain video, graphics, voice over, background music, and text overlays.
4. The edited project must be exactly two minutes in length- time begins with the first audio or image.
5. Topics may come from any area- so long as they are school appropriate. Additionally, all projects in this event must be granted approval by Mr. O'Neal before filming begins.
6. Projects must be completed during the RTC. Entries for other classes or projects prior to the RTC will not be acceptable.

2. Desktop Publishing

Drop off Tuesday September 16 in the Tech Ed building by 8:45 A.M. Black and white publications are fine. Color printing at the school is off limits.

Participants develop a notebook that includes a tri-fold pamphlet, a three (3)-column newsletter, and a poster. All participants (not just finalists) then work to solve an on-site problem that demonstrates their abilities to use the computer to design, edit, and print materials for publication.

The notebook items [a tri-fold pamphlet, a three (3)-column newsletter, and a small poster] must follow these guidelines:

1. The notebook items are developed in color on white 8½" x 11" paper. Color, preprinted, or designed paper may not be used.
2. The notebook items have a common theme selected and developed by the participant. The theme and content of the notebook items must be appropriate for viewing at the national TSA conference. Any notebook that includes images depicting sex, drugs, tobacco, gangs, cults, etc. is disqualified.
3. The notebook is a standard three (3)-ring binder in which the items are contained in clear sheet protectors. Items may be removed and examined by evaluators. Other items may not be included.

3. Extemporaneous Presentation

Presentations will be Wednesday, September 17. See Mr. O'Neal for time.

Participants give a three to five (3-5) minute speech fifteen (15) minutes after having drawn a card on which a technology or TSA topic for their speech is written.

Verbally communicate knowledge of technology or TSA subjects. Entries are limited to one (1) individual per chapter. Each speech must be between three (3) minutes and five (5) minutes. Time commences when the speaker begins talking and concludes at the end of the speech. Business Casual dress as described in Competitive Events Attire is the minimum requirement.

- A. Participants report to the event area at the time and place stated in the conference program. Each participant signs up for a time, which depending on the number of participants, may be up to ninety (90) minutes later than the published start time of the event.
 - B. At his/her assigned time, each participant draws three (3) cards, each containing one (1) topic, from a box and selects one (1) topic from the three (3) on which to speak. The cards with the unused topics are returned to the box.
- A. No reference is to be made concerning the name of the participant or his/her school.

- B. Each speech must be the result of the participant's own effort, using only reference materials that the participant brings to the preparation room. No other assistance may be provided.
- C. Any notes for speaking must be written during the fifteen (15) minute preparation period.
- D. While participants are permitted to use notes when speaking, it should be noted that deductions in scoring might be made for this practice if it detracts from the effectiveness of the presentation.
- F. Participants are penalized on each evaluator's score sheet one (1) point per ten (10) seconds for speaking over five (5) minutes or under three (3) minutes.

4. Medical Technology

Drop off Tuesday September 16 in the Tech Ed building by 8:45 A.M.

Choose a challenging contemporary problem related to medical technology and demonstrate understanding through research, development of a solution, and effective multimedia presentation.

Entries must include documentation within a standard three (3)-ring binder, consisting of the following:

1. Cover page with title of the problem, one (1) page
2. Definition and explanation of the problem, one (1) page
3. An explanation of the solution, including other possible solutions and why they were rejected, maximum three (3) pages
4. A scenario of possible real-life applications, one (1) page
5. Supplementary information such as logs, graphs, sketches, drawings, illustrations, photographs, etc., maximum four (4) pages
6. A print-out of the accompanying PowerPoint presentation [printed with three (3) slides per page, recommended], pages as needed
7. A list of team members and their responsibilities, one (1) page
8. A list of references and resources, pages as needed.

References and resources should be cited using APA, the most current edition.

D. Display guidelines are as follows:

1. The size of the display may not exceed 15" deep x 3' wide x 3' high.
2. A model or prototype is required.
3. AC electricity may not be used. Dry cell or photovoltaic cells may be used for power, if desired. Any power source used must fit within the maximum display area.
4. If operating instructions are necessary, they must be clearly displayed.
5. No harmful or illegal substances, viruses, live plants, or animals may be used as a part of the display. No potentially dangerous processes may be demonstrated or included as part of the display.

5. T-Shirt

Submit via server (O-Drive) by 3:15 P.M. Tuesday September 16

Designs must include the phrase "Roland TSA" and the school year. Backgrounds should either be white or a standard shirt color. Elaborate designs will not win this event, rather ones who are simple, easy to reproduce, appealing, and easy to transfer to t-shirts. You are not allowed to use the TSA logo in any way in this event.

6. Promotional Graphics

Submit via server (O-Drive) by 3:15 P.M. Tuesday September 16

Participants develop and present a graphic design that can be used as a TSA recruitment tool and that includes the theme for the next year's conference. In 2009, participants must include the theme of the 2010 conference, which is "**TSA: Tomorrow's Leaders.**" Note: do not include "TSA" in the theme this year.

1. The design may not exceed 20cm (8 inches) x 25cm (10 inches).
2. The design must be produced using a desktop publishing system, i.e. Photoshop, Corel Draw, PageMaker, Quark-Xpress, Harvard Graphics, etc.
3. The design must include a minimum of three (3) colors.
4. The design must be original and reflect, interpret, or in some other way communicate the published theme of the next national TSA conference.
5. The design must include the following text that may or may not be incorporated as an integral part of the illustration [type face(s) may be original or traditional in design]:
 - a. Technology Student Association

- b. Published theme for the next year's conference (not the current conference)
6. The words "Technology Student Association" are part of the emblem design. Use of the emblem, therefore, can meet the requirement above but entries also may include "Technology Student Association" separately.
7. The design also must incorporate at least one (1) full color version of the official TSA emblem. The TSA emblem can be used only in accordance with trademark policies that appear on the national TSA website www.tsaweb.org). From the homepage, click on **About TSA** and then on **Trademark Policies**. Failure to follow this policy results in disqualification.
8. Computer-generated type and public domain computer clip-art may be used. All entries must be the original work of the entrant. All ideas, text or images from other sources must be cited in the one (1) page description (see B.10 below). If copyrighted material is used, separate written permission must be included as well. Failure to follow this procedure results in disqualification.
9. If the design entry contains images of people, proof of consent must be turned in with the entry. Minors require parental consent. (See Photo/Video Consent and Release form below.)

7. Structural Challenge

Drop off Tuesday September 16 in the Tech Ed building by 8:45 A.M.

Construct a bridge that has a span of 12", and a total width of 14". These measures are to be exact. You must include a drawing. A limit of 20 feet of bass wood is set. *You must use super glue*. For more elaborate rules refer to the TSA guidelines book.

8. Technical Research & Report Writing

Testing event that will take place on Tuesday September 16. Location and times are TBD.

Participants conduct research in an announced technological area and, using the knowledge and resources gained from this research, write a comprehensive report on one (1) subtopic selected from two (2) or three (3) related subtopics designated on site.

The topic is "The Increasing World Population" with these subtopics:

Environmental impacts
Economic impacts
Societal and political impacts

- A. Each participant is allowed to bring 3" x 5" note cards [one (1) for each subtopic], a dictionary, and a thesaurus to the event. All research material brought into the event area must be contained on the note cards. The dictionary and thesaurus must be in print format, not electronic format.
- B. Only participants are allowed in the event area. Should a participant finish before the allotted time expires, the participant is allowed to leave quietly but may not reenter the event room.
- C. Ballpoint pen and paper are supplied by the event coordinator and must be turned in at the conclusion of the event.
- D. Each report must have the participant entry number only placed in the upper right-hand corner of the first page, just above the title of the report.
- E. The length of the report is limited to six (6) handwritten and double-spaced pages, not counting the list of references.
- F. A reference list that includes only those references used to write the report also must be handed in.

9. Technology Bowl

Testing event that will take place on Tuesday September 16. Location and times are TBD.

This is a written individual test.

10. Problem Solving

Testing event that will take place on Tuesday September 16. Location and times are TBD.

This is a written individual test.



Registration Form

Due: Friday August 29th

L2

Student Name _____

Grade _____

What grades have you had Tech Ed. (Circle all that apply).

7th Grade 8th Grade 9th Grade 10th Grade 11th Grade FIRST-YEAR

EVENT	CHECK (UP TO 5)
On Demand Video	
Desktop Publishing	
Extemporaneous Presentation	
Medical Technology	
T-Shirt	
Promotional Graphics	
Structural	
Technical Writing	
Technology Bowl	
Problem Solving	