





Cover Art by:
David Munera
Roselle Park High School Officerence
2018 NJ TSA High School Conference

# 2018-2019 New Jersey TSA Executive Committee

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**Competitive Event Coordinator** 

Mr. Henry Harms, Center for Excellence in STEM Education, Department of Technological Studies, School of Engineering, The College of New Jersey

**Business Administrator** 

Ms. Rebecca Turner, Center for Excellence in STEM Education, Department of Technological Studies, School of Engineering, The College of New Jersey

# **Foreword**

The diverse competitive events that are listed within this booklet are open to TSA chapters affiliated through registration with the New Jersey state office of TSA, completed by January 31, 2019. The High School State Conference will be held at The College of New Jersey on April 13, 2019.

### How this booklet works

The *NJ Supplement* works in conjunction with the National TSA Competitive Events Guide, which you will receive access to online after affiliation with the National TSA Office has taken place.

This booklet presents the competitive events offered at the NJ State Conference in alphabetical order as well as the maximum number of participants or teams permitted to compete from each chapter. Each New Jersey competitive event in this booklet lists only the modifications from the National guidelines. Substitute the NJ modification in this booklet for the number or letter on the National guidelines to ensure that your chapter meets the guidelines for the NJ Competitive Events.

# **Competitive Event Categories**

Competitive Events are organized according to the requirements for student participation in those competitions. There are three categories: **On-Site, Pre-Conference and Static**.

<u>"On-site Events"</u> require student participation on conference day. Some On-Site Events may even include components that must be completed and submitted prior to conference day. Because of the time commitment involved, students may participate in only one On-Site Event (and no more than four total events).

<u>"Pre-Conference Events"</u> require that entries be submitted prior to the conference, on a designated submission date established by NJ TSA. These entries are judged days prior to the conference and put on display the day of the conference. Some Pre-Conference events may have components or presentations that also take place the day of the conference.

<u>"Static Events"</u> require students to submit entries on conference day, however, students are not required to remain with their entries or make presentations. Static Events usually consist of students creating a display or prototype. These entries are checked-in the morning of the conference in the designated event room listed in the conference program. Judging takes place behind closed doors. After judging is finished, all entries are put on display for the remainder of the conference day.

# Please be sure to read all sections of the Supplement carefully!

It is the hope of the NJ TSA Executive Committee that this guide will enable teachers, advisors, students and competitive event judges to be better prepared for participation at the State Conference this spring.

Any questions may be directed to Mrs. Alison Goeke, NJ TSA State Advisor at (609)771-3244 or <a href="mailto:goeke2@tcnj.edu">goeke2@tcnj.edu</a> or Henry Harms, NJ TSA Competitive Event Coordinator, at <a href="mailto:harms@tcnj.edu">harms@tcnj.edu</a>.

# General Rules Governing Competitive Events HIGH SCHOOL EVENTS

# I.

The officially approved **Level II** New Jersey TSA Competitive Events for high school are:

ON-SITE PRE-CONFERENCE STATIC				
Animatronics	3D Animation	**Architectural Design		
1 team of up to 6 members per chapter	3 teams of 2-6 members per chapter	1 individual, or 1 team of up to 6 members per chapter  Documentation submitted Pre-Conference		
Chapter Team 2 team of 6 members per chapter	Biotechnology Design 1 individual, or 1 team of up to 6 members per chapter	Biomimicry 2 teams of 3-6 members per chapter		
**Children's Stories 1 individual, or 1 team of up to 6 members per chapter  Documentation/story submitted Pre-Conference	Coding 2 teams of 1-2 members per chapter	Board Game Design – NEW FOR 2019!  1 team of up to 6 members per chapter		
Computer Integrated Manufacturing (CIM) 2 teams of 2-6 members per chapter	Computer-Aided Design (CAD), Architecture 1 individual per chapter	System Control Technology 2 teams of 3 members per chapter		
Debating Technological Issues 1 team of 2 members per chapter	Computer-Aided Design (CAD), Engineering 1 individual per chapter	Transportation Modeling 2 individuals per chapter		
Engineering Design 1 team of 3-6 members per chapter	Digital Video Production 1 individual, or 1 team of up to 6 members per chapter			
Essays on Technology 2 individuals per chapter	Dragster Design 2 individuals per chapter Top 16 cars are raced on conference day			
Extemporaneous Speech 1 individual per chapter	Music Production 1 individual, or 1 team of up to 6 members per chapter			
**Fashion Design and Technology 2 teams of 2-4 members per chapter Portfolio/garments submitted Pre-Conference	On Demand Video 1 team of 2-6 members per chapter			
Flight Endurance 1 individual per chapter	Photographic Technology 1 individual per chapter			
Forensic Science – NEW FOR 2019!  1 team of 2 members per chapter	Promotional Design 2 individuals per chapter			
**Future Technology Teacher 3 individuals per chapter Documentation submitted Pre-Conference	Scientific and Technical Visualization (SciVis) 3 individuals, or 3 teams of up to 6 members per chapter			
Optical Engineering 3 teams of 3-6 members per chapter	Video Game Design 1 team of up to 6 members per chapter			
Prepared Presentation 1 individual per chapter	Webmaster 1 team of 3-5 members per chapter			
Software Development 3 teams of up to 6 members per chapter				
**Structural Design and Engineering 1 team of 2 members per chapter Bring Pre-Built Structure and Documentation				
Technology Bowl 1 team of 3 members per chapter				
Technology Problem Solving 1 team of 2 members per chapter				
VEX Robotics 1 team of up to 6 members per chapter	**Event has both Pre-Conference, and On-Site or Static Components.			

# II. PROJECT SUBMISSION

- A. <u>On-site</u> events require students to submit entries, make presentations and/or participate/compete in activities *at* the conference.
- B. <u>Static events</u> require students to submit a display or prototype the day of the conference, however, there is no presentation component along with the entry.
- C. <u>Pre-Conference</u> events require projects to be submitted and judged *prior to* the conference
  - 1. Pre-Conference entries mailed must be received by **March 21, 2019**.

Send to:

NJ TSA/Alison Goeke The College of New Jersey 2000 Pennington Rd. 103 Armstrong Hall Ewing, NJ 08628

Please call (609)771-3244 or email (<u>tsa@tcnj.edu</u>) the NJ TSA office to indicate description/quantity of items being mailed and expected delivery date.

- Entries dropped off at the NJ TSA office at The College of New Jersey must be received by March 21, 2019. Please call (609)771-3244 or email (<u>tsa@tcnj.edu</u>) the TSA office to arrange time for delivery.
- 3. A Northern NJ drop off site will be available on **March 20, 2019** from 3:30-5:00pm at Heritage Middle School, 20 Foxcroft Drive, Livingston, NJ 07039.
- Items received after these dates may not be included in competitions.
- Mailed deliveries should include provision for obtaining proof of delivery.
- Packages should include a label or packing slip describing contents.

## III. PARTICIPATION IN COMPETITIVE EVENTS

- A. TSA members may only register and participate in **ONE On-site event**, and no more than **FOUR total events**.
- B. Students must be registered at the state conference in order to enter and become finalists/winners in a competition. NO ON-SITE OR LATE REGISTRATIONS WILL BE ACCEPTED.
- C. No substitutions will be accepted after registration closes, or at the conference. Substitutions in team events will be accepted only from pre-registered applicants, and only under extenuating circumstances.

- D. No school or individual names labeled on projects except for events that require school information. Otherwise, only ID#'s are to be used. Upon registering students online for the state conference, they are automatically assigned a state conference ID# (this ID# is different from their National TSA ID#). This state conference ID number needs to be labeled on every piece of a project/entry (i.e. portfolios, USB drives, models, displays, copyright/release forms, etc.).
- E. For all entries that require documentation materials (comprising a "portfolio") secured in a **CLEAR FRONT REPORT COVER**, visit this <u>site</u> for a sample report cover.
- F. Please be sure to make a copy of all video/electronic files (e.g. Music Production, Video Game Design, etc.) for yourself before the project is submitted.
- G. Projects/entries are picked up at the time stated in the conference program and or event display room. All entries not accounted for will be discarded the following day if no arrangements have been made with the NJ TSA office otherwise.
- H. Audio visual equipment will be provided for competitive events that require it.
- I. NJ TSA is not responsible for compatibility issues with electronic files. Judges will not be permitted to install programs to view files.
- J. Proper procedures for citing material taken from other sources must be followed as outlined in specific competitive event guidelines. Copyright procedures, checklist and forms must be completed and submitted with entries when necessary.
- K. No electronic communication devices of any kind are permitted during competitions and will result in disqualification.
- L. No one will be permitted to leave a test event and return unless instructed by judges.
- M. The maximum size of a team is 6 members, unless otherwise designated in a competition's eligibility guideline.
- N. In addition to the information found in the NJ Supplement, participants are responsible for knowing any updates, changes or clarifications that are made to competitive events prior to participation. This information is posted on both the National TSA and NJ TSA websites. It is crucial that students check the Competition Updates page of BOTH the NJ and National TSA websites. DIFFERENT information is posted on each site.

# IV. COMPETITIVE EVENTS ATTIRE

ALL STUDENTS ATTENDING THE CONFERENCE **MUST** wear either official TSA or business-like attire. Your cooperation with this policy will assist in providing a positive image for the organization and its members. For more info go to: <a href="http://www.tsaweb.org/Dress-Code">http://www.tsaweb.org/Dress-Code</a>

<u>NOTE:</u> All students participating at the 2018 National TSA Conference will be required to wear the <u>Official TSA Shirt (royal blue)</u>. Students are strongly encouraged to wear the Official TSA Shirt to the 2018 State Conference.

# A. Official TSA Attire:

Blazer: navy blue with official TSA patch

Tie: scarlet red imprinted with official TSA logo (for males only)

Shirt or blouse: Official TSA Shirt (royal blue) (A white button-down with turn down collar may be substituted for the Official TSA Shirt at the NJ State Conference)

Pants or skirt: light grav

Dark socks: males only (black or dark blue)

Shoes: black dress shoes (unacceptable: athletic shoes, combat or work boots)

Sandals: females only may wear black open toe shoes or sandals

# B. Business-like attire is considered to minimally include:

collared shirt/blouse long pants (no shorts or jeans) dresses/skirts socks/hosiery appropriate footwear

C. The official NJ TSA or National TSA Polo Shirt may be substituted for a collared shirt/blouse.

Students NOT wearing official TSA or business-like attire <u>will lose 20 points from</u> total score of each event entered and will not be granted entry into the awards <u>ceremony</u>.

A 20 point deduction will also result from the wearing of hats.

All individuals attending the awards ceremony <u>must</u> present their official State Conference ID Badge provided to them at registration. Anyone not in possession of their badge will not be admitted to the Awards Ceremony.

# V. PROPERTY DAMAGE OR LOSS

The College of New Jersey and TSA are not responsible for damage to or loss of property brought to the conference. Please remind students there is no need for them to bring any personal items such as laptops to the conference and that their personal belongings are their sole responsibility that they should not be left behind in any location on campus.

# VI. SCHOLARSHIPS AND AWARDS

# NJ TSA Future Technology Teacher Scholarship

The purpose of the NJ TSA Future Technology Teacher Scholarship is to support the mission of TSA by encouraging NJ TSA members to pursue careers as technology education teachers. A qualifying student will receive a \$500 scholarship to use toward continuing their education. The recipient will be announced at the State Conference.

<u>Click here</u> to view application requirements.

Applications must be submitted by 5:00pm on March 21, 2019 to:

Alison Goeke, State Advisor
New Jersey Technology Student Association
The College of New Jersey
2000 Pennington Rd.
103 Armstrong Hall
Ewing, NJ 08628-0718

Fax: 609.771.3330

# **TSA Technology Honor Society**

The TSA Technology Honor Society recognizes TSA members who excel in academics, leadership, and service to their school and community. The TSA Technology Honor Society is (1) an opportunity for student members to be recognized for their efforts and (2) designed to recognize TSA members who exemplify the high ideals of academics. Go to <a href="http://www.tsaweb.org/Student-Achievement-Awards">http://www.tsaweb.org/Student-Achievement-Awards</a> to view and print forms. Please send completed forms to Alison Goeke (<a href="mailto:goeke2@tcnj.edu/Fax#609-771-3330">goeke2@tcnj.edu/Fax#609-771-3330</a>) by 5:00pm on March 22, 2018.

# VII. IMPORTANT DATES AND DEADLINES

### January 14, 2019

State Conference Registration OPENS.

## January 14, 2019

- Design Problems for the following events posted on the NJ TSA website:
  - Computer-Aided Design (CAD), Architecture
  - Computer-Aided Design (CAD), Engineering
  - Coding
  - Optical Engineering
  - System Control Technology
- Note- all other design problems/themes for 2019 can be found on the National TSA website

# February 28, 2019

On Demand Video theme posted at 5pm on NJ TSA website

## March 5, 2019

On Demand Video entries must be received at the NJ TSA office, or postmarked, by 5pm.

# March 20, 2019

• All Pre-Conference entries delivered to the Northern NJ Drop-Off Site must be received.

### March 21, 2019

All Pre-Conference entries must be received at the NJ TSA office.

# March 21, 2019

 NJ TSA Future Technology Teacher Scholarship, Technology Honor Society and State Officer Nominations must be received at the NJ TSA office by 5pm.

### March 22, 2019

 State Conference Registration CLOSES at 5pm (absolutely no changes can be made after this time).

## April 10, 2019

Prepared Presentation topic posted at 5pm on NJ TSA website

# April 13, 2019

NJ TSA High School State Conference, The College of New Jersey

# June 28-July 2, 2019

National TSA Conference, National Harbor, Maryland

Plan now to attend the 41<sup>th</sup> Annual National TSA Conference June 28-July 2, 2019 Gaylord National Resort National Harbor, MD Theme: "Model the Way"

# Level II - High School Events

# **3D Animation**

Pre-Conference Event
2019 Theme: Ancient Technology

2019 Design Problem: <a href="http://www.tsaweb.org/Themes-and-Problems">http://www.tsaweb.org/Themes-and-Problems</a>

OVERVIEW:	No semifinalists. No on-site problem. Entries submitted Pre- Conference. Participants solve the challenge posted on the National TSA website: <a href="http://www.tsaweb.org/Themes-and-Problems">http://www.tsaweb.org/Themes-and-Problems</a>
ELIGIBILITY:	3 teams of 2-6 members per chapter.
TIME LIMITS:	Preliminary Round  1. Entries must be submitted and accessible via the Internet by 6:00pm on March 21, 2019.  2. No changes are to be made after 6:00pm on March 21, 2019.  No Semifinal Round Delete 1-4. No semifinalists. No onsite problem. No interview. No
	LEAP interview.
LEAP:	No LEAP Report. No LEAP Interview.
ATTIRE:	See Page 6-7 of this guide for required dress code.
PROCEDURE:	Pre-Conference/Preliminary Round  1. Teams email their entry to tsachall@tcnj.edu. No LEAP Report.  2. The URL of the animation/video should be included in the body of the email. Documentation materials should be submitted as a PDF document and included as an attachment in the email. Be sure to include the ID# and "3D Animation Submission" in the subject line.  3. All emails will be time stamped and serve as proof of submitting project on time.  4. No semifinalists. Entries submitted Pre-Conference.  No Semifinal Round Delete 1-9. No semifinalists. No onsite problem. No LEAP interview.  10. The 1st, 2nd and 3rd place winners are announced at the Awards Ceremony.
REGULATIONS:	Preliminary Round B. and B.1. No LEAP Report.

	No Semifinal Round Delete A-E. No semifinalists. No onsite problem. No LEAP Report. No LEAP interview.	
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students for the conference online, they are automatically assigned an ID#. This number needs to be on student projects.	
EVALUATION:	Preliminary Round No change	
	No Semifinal Round Delete 1-3. No semifinalists. No onsite problem. No interview. No LEAP Report. No LEAP interview.	
	Evaluation is based on 80 points:  • Documentation (40)  • Animation (40)	

# **Animatronics**

# On-Site Event

2019 Theme: Create an Animatronic Exhibit for a Natural History Museum.

OVERVIEW:	No change
ELIQIDII ITV	A to a reason to C manage and a reason to reas
ELIGIBILITY:	1 team of up to 6 members per chapter
TIME LIMITS:	Delete 3. No semifinalists. No LEAP interview.
LEAP:	No LEAP Report. No LEAP interview.
ATTIRE:	See Page 6-7 of this guide for required dress code.
PROCEDURE:	Preliminary Round
PROCEDURE.	1. No LEAP Report.
	1. No ELTA Troport.
	5. No semifinalists.
	No Semifinal Round
	Delete 1-4. No semifinalists. No LEAP Report. No LEAP interview.
	5. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards
	Ceremony.
	6. Entries remain on display after judging concludes. Teams pick up
	entries prior to conference departure.
REGULATIONS:	Preliminary Round
REGOLATIONS.	No change
	No Semifinal Round
	Delete A-B. No semifinalists. No LEAP Report. No LEAP interview.
	No school or individual names labeled on projects; only ID#'s are
	to be used. Upon registering students online, they are automatically
	assigned an ID#. This number needs to be on student projects.
EVALUATION:	Delete 4. No LEAP Report. No LEAP interview.
	Evaluation is based on 140 points:
	Demonstration Interview (50)
	Model Appearance (30)
	Model Function (60)

# **Architectural Design**

Static Event (with Pre-Conference Component)
2019 Theme: Tiny Houses- House in a Box
Design Problem: <a href="http://www.tsaweb.org/Themes-and-Problems">http://www.tsaweb.org/Themes-and-Problems</a>

OVERVIEW:	No change
	Note: <b>Documentation portfolio submitted Pre-Conference</b> . Model submitted on conference day.
ELIGIBILITY:	1 individual, or 1 team of up to 6 members per chapter
TIME LIMITS:	Preliminary Round  1. Documentation portfolio is to be emailed to tsachall@tcnj.edu by
	6:00pm on March 21, 2019.
	Delete 2. Documentation portfolio is to be emailed by 6:00pm on March 21, 2019.
	No Semifinal Round Delete 1-2. No semifinalists. No semifinalist presentation/interview. No LEAP interview.
LEAD:	No LEAD Donort, No LEAD interview
LEAP:	No LEAP Report. No LEAP interview.
ATTIRE:	See Page 6-7 of this guide for required dress code.
ATTINE.	occ r age o-r or this guide for required dress code.
PROCEDURE:	Pre-Conference/Preliminary Round  2. Documentation portfolio is to be emailed to tsachall@tcnj.edu by 6:00pm on March 21, 2019. Portfolio should be submitted as a PDF attachment to the email. No LEAP Report. Be sure to include ID# and "Architectural Design Submission" in subject line.
	3. Participants follow the above instructions for email submission.
	4. All emails will be time stamped and serve as proof of submitting project on time.
	7. All models will be judged. No semifinalists.
	9. No semifinalists. Winners are announced at Awards Ceremony.
	No Semifinal Round Delete 1-5. No semifinalists. No semifinalist presentation/interview. No LEAP interview.
	6. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at Awards Ceremony.

REGULATIONS:	Preliminary Round	
	A.2. No semifinalist presentation.	
	A.3.a. No LEAP Report.	
	No Semifinal Round Delete A-B. No semifinalists. No semifinalist presentation/interview. No LEAP Report. No LEAP interview.	
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.	
EVALUATION:	Preliminary Round	
	No change.	
	No Semifinal Round Delete 1-2. No semifinalist presentation/interview. No LEAP Report. No LEAP interview.	
	Evaluation is based on 210 points:	
	Documentation (90)	
	Design Challenge (50)	
	• Model (70)	

# Biomimicry Static Event

2019 Topic: Construction

**NOTE:** this event is being offered at the state level only; it is NOT an official TSA competitive event. Follow the guidelines/procedures below to prepare for entry into the state competition.

TIME LIMITS:	Entries must be started and completed during the current school year. Portfolio and display are submitted on conference day.  No LEAP Report. No LEAP interview.
PURPOSE:  ELIGIBILITY:	Participants apply the principles and practices of industrial design in developing and proposing a product inspired by nature.  2 teams of 3-6 members per chapter.
	The team will create three (3) alternate solutions to solve the problem, choosing one (1) as their final solution. Each team will compile a portfolio, and create a poster board display.  The topic for 2019 is Construction. The portfolio and display are submitted on conference day.
	For example, if the topic were natural resource collection, students could apply the design of the shell of the namib desert beetle, which collects water directly out of the air, in the middle of the desert. The shell could be redesigned to collect water for desert communities with little access to water, or to anyone in need of fresh water.
	For this event, participants work as part of a team to research a given topic, identify a problem within that topic, and use biomimicry, or the example of an organism or system in nature, to solve the problem related to that topic.
	Animals and plants have already come up with effective approaches to many of the same challenges humans face every day. Nature, after all, has gone through 3.8 billion years of research and development!  Biomimicry is a new science that studies nature's best ideas, then imitates these designs to solve human problems.
OVERVIEW:	An increasing number of engineers and designers are looking to nature for inspiration in developing new products, systems and solutions to problems.

PROCEDURE:	Α.	Participants research and identify a problem within the designated topic.
	В.	Using that problem, participants will find at least three (3) alternative solutions to that problem, inspired by nature.
	C.	Participants select one of these solutions and explain why it is the best choice.
	D.	Participants create a display of the final solution. A portfolio compiling all information will be submitted to the judges.
REGULATIONS:	A.	Each team is required to secure the assistance of a biomimicry mentor; someone other than the TSA Advisor, who has experience related to the year's topic. The name, address, and occupation of this individual should be documented and included in the team's portfolio.
	В.	Each team is encouraged to identify the demographics of the society where the problem exists. This information can be documented on the same page as the above and included in the team's portfolio.
	C.	The entry will consist of a design portfolio and a poster board display.
	D.	The solution (including design portfolio and display) must not exceed 3' wide x 4' high. The poster board display will include:
		<ol> <li>Name of the final solution, conference city, state and year.</li> </ol>
		2. Rationale for the final solution.
		3. Detailed explanation of the final solution.
		<ol> <li>A three (3)-dimensional technical or CAD drawing and/or rendering of the final solution.</li> </ol>
	E.	Documentation materials (comprising "a portfolio") are required and should be secured in a clear front report cover. The report cover must include the following single-sided, 8 ½ " x 11" pages, in this order:
		<ol> <li>Title page with the event title, the conference city and state, and the year; one (1) page.</li> </ol>
		2. Table of contents; pages as needed.
		<ol><li>Mentor verification that includes the name, address, and occupation of the mentor; one (1) page.</li></ol>
		4. A design brief (format that follows) that describes the

design and its constraints; one (1) or more pages.

# **DESIGN BRIEF**

**Context:** States the nature of the engineering design

**Task:** Clearly states what the team will be involved in

**Restrictions:** Identifies any restrictions

**Investigations:** Identifies the research involved

**Development:** States essential elements involved in planning

**Production:** Identifies the expected result

**Evaluation:** Identifies the expected assessment procedure and

criteria

5. A description of the problem solving steps; pages as needed.

- 6. Plan of Work log that indicates preparation for the event, as noted by date, task, time involved, team member responsible and comments (see Plan of Work log in the National TSA Competitive Events Guide); one (1) page.
- 7. Evidence of research conducted by the design team; pages as needed.
- 8. Documentation of brainstorming; pages as needed.
- 9. Descriptions and illustrations of three (3) possible solutions with a brief but concise evaluation of the merits of each; three (3) or more pages.
- 10. A detailed description of the final solution; pages as needed.
- 11. A three (3)-dimensional technical or CAD drawing and/or rendering of the final solution; the maximum sheet size is drawing sheet cut size B 11"x17"; when this sheet size is used, the sheet must be hole-punched and folded or placed in a sheet protector for insertion in the portfolio; pages as needed.
- 12. Math and science concepts and applications involved in the final design solution; one (1) page.
- A list of references and resources; MLA style must be used in citing all references and resources; pages as needed.

	<ul> <li>14. An evaluation of how well the final solution addresses the identified problem and an explanation of the impact of the solution on society; pages as needed.</li> <li>No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.</li> </ul>
EVALUATION:	Please see the rating form on the following pages.  Evaluation is based on 100 points:  Documentation (60 points)  Display (40 points)  No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.
STEM INTEGRATION:	This event aligns with the STEM educational standards noted below.  Science, Technology, Engineering, Mathematics
PRIMARY LEADERSHIP SKILLS:	<ul> <li>Leadership skills promoted in this event:         <ul> <li>COMMUNICATION — Students choose an existing design problem and develop and explain their solution. Suggested leadership lessons: Personality Types and Promote It</li> <li>CRITICAL THINKING — Students analyze and evaluate a problem in order to develop an acceptable solution. Suggested leadership lessons: And The Answer Is and Critical Thinking Tips</li> <li>PROBLEM SOLVING — Students devise a plan that will yield an acceptable solution. Suggested leadership lessons: Debate It and Effective Brainstorming</li> </ul> </li> <li>Additional leadership skills promoted in this event: creative thinking, decision making, ethics, evaluation, organization, teamwork</li> </ul>
TSA AND CAREERS:	This competition connects to one or more of the career areas featured in the TSA AND CAREERS section of the National TSA Competitive Events Guide. Use <i>The 16 Career Clusters</i> chart and the <i>TSA Competitions and The 16 Career Clusters</i> grid as resources for information about careers.
CAREERS RELATED TO THIS EVENT:	All fields of engineering and design (and related areas)

The work is unorganized and

to be an afterthought.

sloppy, and the display seems

Aesthetics and

Artisanship

(X1)

used somewhat effectively.

The work is organized, with

in a logical format.

essential design principles given

The work reflects an exemplary

SUBTOTAL (40 points)

use of layout and design

principles to logically communicate important data.

Rules violations (a deduction of 20% of the total possible points) must be initialed by the evaluator, coordin manager of the event. Record the deduction in the space to the right.	nator and
Indicate the rule violated:	
(To arrive at TOTAL score, add any subtotals and subtract rules violation points, as necessary. Check your	ır math
twice!)	TAL (00
points)	OTAL (90
Comments:	
I certify these results to be true and accurate to the best of my knowledge.	
<u>Evaluator</u>	
Printed name: Signature:	

Biotechnology Design
Pre-Conference Event
2019 Area of Focus: Marine Biotechnology

OVERVIEW:	Entries are submitted Pre-Conference.
ELICIDII ITV.	4 individual and topic of up to Consumb on your shouter
ELIGIBILITY:	1 individual, or 1 team of up to 6 members per chapter.
TIME LIMITS:	No semifinalists. All teams provide a video presentation of no more than 5 minutes with their entry. No LEAP interview.
LEAP:	No LEAP Report. No LEAP interview.
ATTIRE:	See Dage 6.7 of this guide for required dress code
ATTIKE.	See Page 6-7 of this guide for required dress code.
PROCEDURE:	Preliminary Round 3. Entries submitted Pre-Conference. No LEAP Report. 5. No semifinalists.
	No Semifinal Round 1-2. No semifinalists. All teams provide a video presentation of up to 5 minutes in length. Video should be accessible online (e.g. YouTube) and the URL should be include in the documentation materials.
	Delete 3. No LEAP interview.
	4. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards Ceremony.
DECLU ATIONO	Dulining Dead
REGULATIONS:	Preliminary Round B.1. No LEAP Report
	B.8. Multimedia presentation is submitted in video form (up to 5 minutes in length). A print out of the URL containing the video is to be included.
	B.11. No USB flash drive submission. Video of multimedia presentation is to be accessible online and the URL is to be included in the documentation materials. Presentation becomes the property of NJ TSA.
	No Semifinal Round  A. No semifinalists. All teams provide a video presentation of up to 5 minutes in length. Video should be accessible online (e.g. YouTube) and the URL should be include in the documentation materials.

	B. The presentation is not to exceed 5 minutes in length. No questions from judges. Video submission.  Delete B.1-B.3. No semifinalists. Video presentation is submitted. No live presentation. No onsite component.	
	Delete C. No Leap Report. No LEAP interview.	
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.	
EVALUATION:	Preliminary Round No change	
	No Semifinal Round  1. No semifinalists. All teams provide a video presentation of up to 5 minutes in length	
	Delete 2. No LEAP Report. No LEAP interview.	
	Evaluation is based on 170 points:  • Documentation (50)  • Display (60)  • Presentation (video) (60)	

# **Board Game Design**<u>Static Event</u>

OVERVIEW:	No semifinalists. No demonstration/interview. Static event.
ELIGIBILITY:	1 team of up to 6 members per chapter
TIME LIMITS:	1-3. No semifinalists. No interview. No LEAP interview. Teams have five (5) minutes to setup game on conference day.
LEAP:	No LEAP Report. No LEAP interview.
ATTIRE:	See Page 6-7 of this guide for required dress code.
PROCEDURE:	Preliminary Round 2. No LEAP Report.  4. No semifinalists. Winners announced at Awards Ceremony.  No Semifinal Round Delete 1-5. No semifinalists. No LEAP Report. No LEAP interview.  6. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards Ceremony.  7. Entries will remain on display after judging concludes. Conference attendees will have the opportunity to play games on display. Teams pick up entries prior to conference departure.
REGULATIONS:	Preliminary Round C.1. Documentation materials are to be printed and submitted in a clear front report cover. No USB flash drive submission. C.2. No USB flash drive submission. Paper copy of documentation materials are to be submitted with entry. C.4. No PDF document. No USB submission. Paper copy of the portfolio is submitted. C.4.a. No LEAP Report.  No Semifinal Round Delete A-D. No semifinalists. No demonstration/interview. Static event. No LEAP Report. No LEAP interview.

	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.
EVALUATION:	Preliminary Round No change.
	No Semifinal Round  Delete 1-3. No demonstration. No interview. No LEAP Report. No LEAP interview.
	Evaluation is based on 130 points:  • Documentation (70)  • Packaging (30)  • Board Game (30)

# Chapter Team On-Site Event

OVERVIEW:	No semifinals. All teams make the oral presentation.
_	
ELIGIBILITY:	1. 2 teams of 6 members per chapter.
	3. No semifinalists. All teams take the written test and participate in the
	oral presentation.
	•
TIME LIMITS:	Preliminary Round
	No change.
	No Comifinal Dound
	No Semifinal Round No semifinalists. All teams make the oral presentation. Time-related
	penalties apply.
	ponsition apply:
	Delete 1.b. No LEAP interview.
	Doloto 2. No I EAD interview
	Delete 2. No LEAP interview.
LEAP:	No LEAP Report. No LEAP Interview.
	The EE'r Tropert. The EE'r Triberties.
ATTIRE:	Participants may wear Official TSA Attire OR Business-Like Attire, as
	described on Page 6-7 of this guide.
PROCEDURE:	Preliminary Round
	Delete 2. No LEAP Report.
	Delete 4-5. No semifinalists. All teams make the oral presentation.
	No Semifinal Round
	No semifinalists. All teams make oral presentation.
	Delete 5. No LEAP interview.
	6. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards
	Ceremony.
DECLU ATIONS	Droliminant Dound
REGULATIONS:	Preliminary Round  B. No semifinalists. All teams participate in the written test and oral
	presentation.
	No Semifinal Round
	A. No semifinalists. All teams make oral presentation.
	A.1. Materials provided by NJ TSA.
	, an inatorials provided by No 10/1.
	E. No LEAP interview.

	G. No semifinalists. All teams make oral presentation.  Delete H. No LEAP Report. No LEAP interview.
EVALUATION:	Preliminary Round  1. No semifinalists. All teams make oral presentation.  1.a. No semifinalists. All teams make oral presentation.  No Semifinal Round Delete 2. No LEAP Report. No LEAP interview.  Evaluation is based on 220 points:  Team Written Test (10) Business Meeting Demonstration (190) Possible Bonus Points for Additional Motions/Actions (20)

# **Children's Stories**

# On-Site Event (with Pre-Conference Component)

2019 Theme: Multi-Modal Picture Book – Design a book with tactile and auditory features that enrich the storybook experience for children ages 4-7 who have a disability.

No change
Note: Documentation Portfolio and Storybook submitted Pre- Conference. Teams participate in the reading and interview on conference day.
1 individual, or 1 team of up to 6 members per chapter.
No Semifinal Round
1-2. No semifinalists. All teams participate in the reading and interview on conference day.
Delete 3. No LEAP interview.
No LEAP Report. No LEAP interview.
See Page 6-7 of this guide for required dress code.
Pre-Conference No change.  Preliminary Round  1. Participants submit their Documentation Portfolio and Storybook Pre-Conference. Documentation Portfolio must be printed and submitted in a clear front report cover. No USB drive. No LEAP Report. Documentation Portfolio (in clear front report cover) is submitted alongside physical storybook.  1.b. Please follow Pre-Conference drop off instructions on Page 5 of this guide.  3. No semifinalists. All teams participate in reading and interview.  No Semifinal Round 1-2. No semifinalists. All teams will participate in the reading and interview on conference day.  4. No LEAP interview.  6. No finalists. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards Ceremony.

REGULATIONS:	Preliminary Round
REGULATIONS.	A. Documentation Portfolio must be printed and submitted in a clear front report cover. No USB drive submission.
	C.1. Documentation Portfolio must be printed and submitted in a clear front report cover. No USB drive submission.
	C.2. No USB drive submission. Change TSA to NJ TSA.
	C.4. No PDF document. Printed copy of Documentation Portfolio submitted.
	C.4.a. No LEAP Report.
	No Semifinal Round  A. No semifinalists. All teams will participate in the reading and interview on conference day.
	Delete E. No LEAP Report. No LEAP interview.
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.
EVALUATION:	Preliminary Round No change.
	No Semifinal Round  1. No semifinalists. All teams participate in the reading and interview on conference day.
	Delete 2. No LEAP Report. No LEAP interview.
	<ul> <li>Evaluation is based on 220 points:</li> <li>Documentation (90)</li> <li>Storybook (100)</li> <li>Reading and Interview (30)</li> </ul>

# Coding Pre-Conference Event Design Problem will be posted on the NJ TSA website on Janury 14, 2019

OVERVIEW:	No onsite problem. Entries are submitted Pre-Conference. Design problem will be posted on the NJ TSA website on January 14, 2019.
ELIGIBILITY:	2 teams of 1-2 members per chapter
	·
TIME LIMITS:	Design problem will be posted on January 14, 2019. Entries are submitted Pre-Conference. Submission instructions will be included in design problem.  Delete 2. No semifinalists. No LEAP interview.
LEAP:	No LEAP Report. No LEAP interview.
ATTIRE	See Page 6-7 of this guide for required dress code.
ATTINE	Occ 1 age o 7 of this guide for required dress code.
PROCEDURE:	Preliminary Round  1. Entries are submitted Pre-Conference. No LEAP Report.
	2. Design problem will be posted on the NJ TSA website on January 14, 2019.
	3-4. Entries submitted Pre-Conference. Submission instructions will be included in design problem.
	6. No semifinalists.
	No Semifinal Round Delete 1. No semifinalists. No onsite component. Entries submitted Pre-Conference. No LEAP interview.
	2. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards Ceremony.
REGULATIONS:	Preliminary Round  B-L. No onsite competition. Design problem posted on the NJ TSA website on January 14, 2019. Entries submitted Pre-Conference.
	No Semifinal Round Delete A. No LEAP Report. No LEAP interview.
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.
F1/A11/A=:A:·	
<b>EVALUATION:</b>	Evaluation criteria will be included in the design problem.

Computer-Aided Design (CAD), Architecture

Pre-Conference Event

2019 Design Problem will be posted on the NJ TSA website on January 14, 2019

OVERVIEW:	No change
	The design problem will be posted on the NJ TSA website on
	January 14, 2019.
ELIGIBILITY:	1 individual per chapter
TIME LIMITS:	Delete 1-4. Entries must be completed during the school year and are submitted Pre-Conference. There is no on-site component. No LEAP interview.
	The design problem will be posted on the NJ TSA website on January 14, 2019.
LEAP:	No LEAP Report. No LEAP interview.
ATTIRE:	See Page 6-7 of this guide for required dress code.
PROCEDURE:	Delete 1-4. The design problem will be posted on the NJ TSA website on January 14, 2019. Entries are submitted Pre-Conference. No LEAP Report.
	Delete 6-10. No on-site component. No semifinalists. No LEAP interview.
	11. Entries are displayed on conference day. Participants should pick up entries prior to departing the conference.
	12. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards Ceremony.
DECLII ATIONO	Doloto A.D. Entrino must be completed during the colored visit and
REGULATIONS:	Delete A-D. Entries must be completed during the school year and are submitted Pre-Conference. There is no on-site component.
	Delete F. No USB flash drive submissions. <b>Designs submitted on</b> a maximum paper size of 24" x 36" or smaller sheets mounted on a 24" x 36" sheet with no overlapping papers.
	Delete G. No semifinalists. No LEAP Report. No LEAP interview.
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.

<b>EVALUATION:</b>	1. Delete "on screen."
	Delete 2. No LEAP Report. No LEAP interview.
	Evaluation is based on 140 points:
	Solution to Problem (40)
	• Layout (60)
	Architectural Application (20)
	Software Utilization (20)

Computer-Aided Design (CAD), Engineering
Pre-Conference Event
2019 Design Problem will be posted on the NJ TSA website on January 14, 2019

OVERVIEW:	No change The design problem will be posted on the NJ TSA website on January 14, 2019.
ELIGIBILITY:	1 individual per chapter
TIME LIMITS:	Delete 1-4. Entries must be completed during the school year and are submitted Pre-Conference. There is no on-site component. No LEAP interview.
	The design problem will be posted on the NJ TSA website on January 14, 2019.
LEAP:	No LEAP Report. No LEAP interview.
ATTIRE:	See Page 6-7 of this guide for required dress code.
PROCEDURE:	Delete 1-4. The design problem will be posted on the NJ TSA website on January 14, 2019. Entries are submitted Pre-Conference. No LEAP Report.
	Delete 6-10. No on-site component. No semifinalists. No LEAP interview.
	11. Entries are displayed on conference day. Participants should pick up entries prior to departing the conference.
	12. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at Awards Ceremony.
REGULATIONS:	Delete A-D. Entries must be completed during the school year and are submitted Pre-Conference. There is no on-site component.
	Delete F. No USB flash drive submission. <b>Designs submitted on a</b> maximum paper size of 24" x 36" or smaller sheets mounted on a 24" x 36" sheet with no overlapping papers.
	Delete G. No semifinalists. No LEAP Report. No LEAP interview.
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.

EVALUATION:	1. Delete "on screen." Delete 2. No LEAP Report. No LEAP interview.
	Evaluation is based on 140 points:  • Solution to Problem (40)  • Layout (60)  • Engineering Application (20)  • Software Utilization (20)

# Computer Integrated Manufacturing (CIM) On-Site Event 2019 Theme: A STEM-Themed Toy

OVERVIEW:	No semifinalists. All teams assemble their entry and give live sales pitch.
ELIGIBILITY:	2 teams of 2-6 members per chapter.
TIME LIMITS:	No semifinalists. All teams deliver sales pitch and demonstrate/assemble the product.
	2. No semifinalists. No LEAP interview. All teams deliver sales pitch and demonstrate/assemble the product.
LEAP:	No LEAP Report. No LEAP interview.
ATTIRE:	See Page 6-7 of this guide for required dress code.
PROCEDURE:	Preliminary Round  1. No LEAP Report.
	2-3. No semifinalists. All teams deliver sales pitch and demonstrate/assemble the product.
	No Semifinal Round  1. No semifinalists. All teams deliver sales pitch and demonstrate/assemble the product.
	4. No LEAP interview.
	5. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards Ceremony.
REGULATIONS:	Preliminary Round A.1. No LEAP Report.
	No Semifinal Round No semifinalists. All teams participate in assembly and sales pitch session.
	Delete C. No LEAP Report. No LEAP interview.
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.

<b>EVALUATION:</b>	Delete 3. No LEAP requirements. No LEAP Report or interview.
	4. No semifinalists. All teams participate in sales pitch/demonstration.
	Evaluation is based on 190 points:
	Documentation (100)
	Component Analysis (40)
	Presentation (50)

# Debating Technological Issues On-Site Event

2019 Topic: Social Media

Subtopic 1: Resolved: Social media companies are obligated to address the deliberate spread of misinformation (aka Fake News).

Subtopic 2: Resolved: The transactional nature of social media (up votes/down votes) has a negative impact on society at large.

Subtopic 3: Resolved: Social media companies must be held criminally liable for the illegal activities that their users plan or execute on their platforms.

OVERVIEW:	No change
OVERVIEW.	No change
ELIGIBILITY:	1 team of 2 members per chapter
TIME LIMITS:	Delete 2. No LEAP interview. No semifinalists.
LEAP:	No LEAP Report. No LEAP interview.
	THE LEFT TREPORT THE LEFT WINCOTTON.
ATTIRE:	See Page 6-7 of this guide for required dress code.
ATTIKE.	See Page 0-7 of this guide for required diess code.
PROCERUPE	Dell'edia a Deced
PROCEDURE:	Preliminary Round
	Delete 2.e. No LEAP Report.
	21. No semifinalists.
	No Semifinal Round
	Delete 1-5. No semifinalists. No LEAP interview.
	No finalists. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the
	Awards Ceremony.
	/ Wards Geremony.
REGULATIONS:	Droliminary Dound
REGULATIONS.	Preliminary Round
	6. No semifinalists.
	No Semifinal Round
	Delete A-B. No semifinalists. No LEAP Report. No LEAP interview.
<b>EVALUATION:</b>	Delete 3. No LEAP requirements. No LEAP Report. No LEAP
	interview.
	Evaluation is based on 110 points:
	· ·
	• Debate (110)

### **Digital Video Production**

### **Pre-Conference Event**

2019 Theme: A Mockumentary

A mockumentary or mock documentary is a genre of film, a parody that takes the form of a serious documentary on a chosen subject.

OVERVIEW:	No change
	<b>Note:</b> NJ TSA reserves the right to disqualify any entries that contain inappropriate content. These entries will not be judged.
ELIGIBILITY:	1 individual, or 1 team of up to 6 members per chapter
	D. I. C. N IS . II. C. N I EAD
TIME LIMITS:	Delete 2. No semifinalists. No LEAP interview.
LEAD.	No LEAD Depart. No LEAD internious
LEAP:	No LEAP Report. No LEAP interview.
ATTIRE:	See Page 6-7 of this guide for required dress code.
ATTIKE.	See Page 6-7 of this guide for required dress code.
PROCEDURE:	Preliminary Round  1. Entries are submitted Pre-Conference. No LEAP Report.  Documentation materials are to be printed and submitted in a clear-front report cover. Video is to be submitted on a USB flash drive (secured inside report cover).
	3. No semifinalists. Winners are announced at the Awards Ceremony.  No Semifinal Round Delete 1-2. No semifinalists. No LEAP interview. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup>
	place winners are announced at the Awards Ceremony.
REGULATIONS:	Preliminary Round A. No change.  B. Documentation materials are to be printed and submitted in a clear-front report cover with single-sided, 81/2" x 11" pages. (Only video is to be submitted on the USB flash drive.)  Delete B.1. No LEAP Report.
	No Semifinal Round Delete A. No LEAP Report. No LEAP interview. No onsite component.
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.

<b>EVALUATION:</b>	Preliminary Round
	No change.
	No Semifinal Round
	No LEAP Report. No LEAP interview.
	Fuglisation is board on 100 naints
	Evaluation is based on 100 points
	Preproduction Documentation (30)
	Video production (70)

# **Dragster Design Pre-Conference Event**

OVERVIEW:	No change
ELIGIBILITY:	2 individuals per chapter
LLIGIBILITT.	2 individuals per chapter
TIME LIMITS:	Dragster and drawing submitted Pre-Conference.
	No car-builder interview. No LEAP interview.
	Cars that do not meet specifications will NOT be raced.
	·
LEAP:	No LEAP Report. No LEAP interview.
ATTIRE:	See Page 6-7 of this guide for required dress code.
ATTINE.	See Fage 0-7 of this guide for required dress code.
PROCEDURE:	Preliminary Round  1. Dragster and drawing submitted Pre-Conference. No LEAP Report.
	Semifinal Round  1. No interview. No LEAP interview.
	4. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards Ceremony.
REGULATIONS:	Preliminary Round
REGULATIONS.	No change.
	Semifinal Round A.7. All CO2 cartridges for the race are provided by NJ TSA.
	Delete B. No LEAP Report. No LEAP interview.
	<ul> <li>PLEASE NOTE:</li> <li>The top 16 dragsters meeting specifications will be raced in the double elimination bracket at the conference.</li> </ul>
	Cars not meeting specs WILL BE DISQUALIFIED from the competition.
	A caliper will be used for all measurements
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.

	Place ID# on drawings and directly on dragster. It is recommend ID#'s are placed on bottom or back side of dragster with tape or label.
EVALUATION:	Delete 3. No interview.
	Delete 5. No LEAP Report. No LEAP interview.
	Evaluation is based on 105 points:
	<ul><li>Dragster construction (50)</li><li>Race (55)</li></ul>

Engineering Design
On-Site Event
2019 Theme: Practical and Cost Effective Uses for Solar Energy In and Around a Home

OVERVIEW:	No semifinalists. All teams give a presentation/interview.
ELIGIBILITY:	1 team of 3-6 members per chapter.
	- A Common of the Common of th
TIME LIMITS:	No semifinalists. All teams will give a presentation of up to 5 minutes in length.
	3. No LEAP interview. No semifinalists.
LEAP:	No LEAP Report. No LEAP interview.
ATTIDE.	Coo Dogo C 7 of this guide for required drops and
ATTIRE:	See Page 6-7 of this guide for required dress code.
PROCEDURE:	Preliminary Round  1.a. Portfolio is to be printed and submitted in a clear front report cover. No USB flash drive submission.  Delete 1 d. No LEAR Benert
	Delete 1.d. No LEAP Report.  3. No semifinalists. All portfolios, posters and displays will be evaluated.
	4. No semifinalists. Winners announced at the Awards Ceremony.
	No Semifinal Round 1-2. No semifinalists. All teams give presentation/interview.
	3. No LEAP interview.
	4. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards Ceremony.
REGULATIONS:	Preliminary Round C. Portfolio is to be printed and submitted in a clear front report cover
	and include single sided 81/2" x 11" pages. No USB flash drive submission.
	Delete C.1. No LEAP Report.
	No Semifinal Round  A. No semifinalists. All teams give presentation/interview.
	B. No semifinalists. All teams give presentation/interview of up to 5

	minutes in length. Delete C. No LEAP Report. No LEAP interview.  No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.
EVALUATION:	Dralinsia and David
EVALUATION:	Preliminary Round  1. No semifinalists. All portfolios, posters and displays will be evaluated.
	No Semifinal Round  1. No semifinalists. All teams give event-specific presentation/interview.
	Delete 2. No LEAP Report. No LEAP interview.
	Evaluation is based on 270 points:
	Documentation (120)
	Display (Poster and Models) (50)
	Presentation/interview (100)

# Essays on Technology On-Site Event

OVERVIEW:	No change
_	
ELIGIBILITY:	2 individuals per chapter
TIME LIMITS:	Delete 2. No semifinalists. No LEAP interview.
THVIE LIMITS.	Delete 2. No seminimalists. No LEAP interview.
LEAP:	No LEAP Report. No LEAP interview.
ATTIRE:	See Page 6-7 of this guide for required dress code.
PROCEDURE:	Preliminary Round
	2. No LEAP Report.
	3. Computers will be provided by NJ TSA.
	or comparers will be provided by the 1971.
	4. No USB flash drive needed. Directions for submission of completed
	essays will be provided on-site.
	O No consistantiate Minners announced at the Asserte Conservation
	9. No semifinalists. Winners announced at the Awards Ceremony.
	No Semifinal Round
	Delete 1. No semifinalists. No LEAP interview.
	2. No finalists. The 1 <sup>st</sup> . 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at
	the Awards Ceremony.
REGULATIONS:	Preliminary Round
REGULATIONS.	A-C. Computers will be provided by NJ TSA.
	7. G. Gompatoro wiii bo provided by No 1971.
	D. No USB flash drive needed. Directions for submission of
	completed essays will be provided on-site.
	IK All and a bound the second CALLTON ALLIOD (L. L. L.
	K. All essays become the property of NJ TSA. No USB flash drives.
	Delete L. No LEAP Report. No LEAP interview.
EVALUATION:	Delete 2. No LEAP requirements.
	Evaluation is based on 110 points:
	• Essay (110)

# Extemporaneous Speech On-Site Event

ELIGIBILITY: 1 individual per chapter  TIME LIMITS: Preliminary Round No change  No Semifinal Round	
TIME LIMITS:  Preliminary Round No change  No Semifinal Round	
No change  No Semifinal Round	
No change  No Semifinal Round	
No Semifinal Round	
No semifinalists. No LEAP interview.	
LEAD Depart No LEAD interview	
LEAP: No LEAP Report. No LEAP interview.	
ATTIRE: See Page 6-7 of this guide for required dress code.	
ATTIKE. See Fage 0-7 of this guide for required dress code.	
PROCEDURE: Preliminary Round	
1. No LEAP Report.	
Titto EEr ii Noporii	
8. No semifinalists. Winners are announced at the Awards	
Ceremony.	
No Semifinal Round	
Delete 1-3. No semifinalists. No LEAP interview. Participants ma	ke
preliminary speech only.	
REGULATIONS: Preliminary Round (No Semifinal Round)	
Delete D. No observers allowed.  Delete F. No semifinal round. No semifinalists. No LEAP	
Requirements. No LEAP Report. No LEAP interview.	
Requirements. No LEAF Report. No LEAF Interview.	
EVALUATION: Delete 4. No LEAP requirements. No LEAP Report. No LEAP	
interview. No semifinalists.	
Evaluation is based on 80 points:	
Speech (80)	

## Fashion Design and Technology On-Site Event (with Pre-Conference Component)

2019 Theme: CosPlay

Cosplay is the practice of dressing up as a character from a movie, book, or video game, especially one from the Japanese genres of manga and anime. Each team should design and create from scratch three (3) garments to fit the cosplay theme. Garments can be based on characters, movies, comics, and books but cannot contain copyrighted logos or images without written permission.

OVERVIEW:	Portfolio, patterns and prototypes are submitted <b>Pre-Conference</b> .  No semifinalists. <b>All teams participate in on-site</b> presentation/interview on conference day.
ELIGIBILITY:	2 teams of 2-4 members per chapter
TIME LIMITS:	No semifinalists. All teams participate in presentation/interview.
	Delete 2. No semifinalists. No LEAP interview.
LEAP:	No LEAP Report. No LEAP interview.
ATTIRE:	See Page 6-7 of this guide for required dress code.
PROCEDURE:	Preliminary Round  1. Entries are submitted Pre-Conference (please see Page 5 of this guide for submission information). No LEAP Report.  3. No semifinalists. All teams participate in presentation/interview. These sessions are OPEN to audience members.  No Semifinal Round  1-5. No semifinalists. All teams participate in presentation/interview. These sessions are OPEN to audience members.  Delete 6. No LEAP interview.  8. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards Ceremony.
REGULATIONS:	Preliminary Round Delete B.1.a. No LEAP Report.  7. Change National TSA Conference to NJ TSA State Conference.  No Semifinal Round A-B. No semifinalists. All teams participate in presentation/interview.  Delete C. No LEAP requirements. No LEAP Report. No LEAP

	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on all parts of student projects.
	Labels/tape are recommended for labeling garments, documentation, and on the outside of submission container and/or garment bag.
EVALUATION:	2. No LEAP Report. No LEAP interview.
	<ul> <li>3. No semifinalists. All teams participate in presentation/interview.</li> <li>Evaluation is based on 220 points: <ul> <li>Documentation (90)</li> <li>Patterns (30)</li> <li>Quality of garments (30)</li> <li>Presentation/Interview (70)</li> </ul> </li> </ul>

# Flight Endurance On-Site Event

OVERVIEW:	No change
	Plane, portfolio and flight box are built off-site and submitted for judging on conference day.
ELIGIBILITY:	1 individual per chapter
ELIGIBILITT.	i ilidividual per citaptei
TIME LIMITS:	Participants are provided a minimum of 20 minutes for trim flights at the event site.
	Delete 2. No semifinalists. No LEAP interview.
LEAP:	No LEAP Report. No LEAP interview.
ATTIRE:	See Page 6-7 of this guide for required dress code.
PROCEDURE:	Preliminary Round  1. No LEAP Report.
	11-12. No semifinalists. Winners are announced at the Awards Ceremony.
	No Semifinal Round Delete 1. No semifinalists. No LEAP interview.
	2. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards Ceremony.
	Participants pick-up planes at the time/location specified by the event coordinator.
REGULATIONS:	Preliminary Round Delete B.1. No LEAP Report.
	C. Plane must be contained in a flight box, which students must provide.
	No Semifinal Round Delete A. No semifinalists. No LEAP Report. No LEAP interview.
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.
	Place ID# on drawings and directly on plane. It is recommend ID#'s are placed on bottom or back side of plane with tape or label.

EVALUATION:	Delete 4. No LEAP requirements. No LEAP Report. No LEAP interview. No semifinalists.
	Evaluation is based on 120 points:
	Documentation (60)
	Flight Times (60)

### **Forensic Science**

### **On-Site Event**

OVERVIEW:	No change					
ELIGIBILITY:	1 team of 2 members per chapter					
TIME LIMITS:	2. Ten (10) teams with the highest averaged scores from the written test will be selected as semifinalists and will advance to review the crime scene. Semifinalists are allotted ten (10) minutes to review the crime scene and gather evidence.					
LEAP:	No LEAP Report. No LEAP interview.					
	The 227 th Theports The 227 th Interviews					
ATTIRE:	See Page 6-7 of this guide for required dress code.					
PROCEDURE:	Preliminary Round  1. No LEAP Report.  3. Ten (10) teams with the highest averaged scores will be selected as semifinalists.					
	4. A list of ten (10) semifinalist teams will be posted.					
	Semifinal Round  2.a. Teams must demonstrate three (3) techniques/procedures for evidence collection using their toolkits.					
	Delete 3. No LEAP Report. No LEAP interview.					
	4. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards Ceremony.					
DECLU ATIONS	Bulliulian Bund					
REGULATIONS:	Preliminary Round No change.					
	Semifinal Round Delete F.11-F.12. No duster, dust, or fingerprint lifting tape needed.					
	Delete G.1. Participants will NOT be required to collect fingerprints.					
	Delete H. No LEAP Report. No LEAP interview.					
EVALUATION:	Preliminary Round  2. Ten (10) teams with the highest scores will be selected as the semifinalists for the onsite problem.  Semifinal Round					
	Semifinal Round					

Delete 2. No LEAP Report. No LEAP interview.
<ul> <li>Evaluation is based on 130 points:</li> <li>Written Test Score (50)</li> <li>Analysis of Crime Scene (80)</li> </ul>

# Future Technology Teacher On-Site Event (with Pre-Conference Component)

OVERVIEW:	No change				
	Note: Portfolio submitted Pre-Conference.				
ELIGIBILITY:	3 individuals per chapter				
TIME LIMITS:	No semifinalists. All participants make presentation on site.				
	Delete 5. No LEAP interview. No semifinalists. All participants make presentation.				
I FAD.	No LEAD Deport. No LEAD intensions				
LEAP:	No LEAP Report. No LEAP interview.				
ATTIRE:	See Page 6-7 of this guide for required dress code.				
PROCEDURE:	Preliminary Round  2. No LEAP Report. Portfolio submitted Pre-Conference.				
	4. No semifinalists. All participants present lesson plan/activity.				
	No Semifinal Round  1. No semifinalists. All participants present lesson plan/activity.				
	4. No LEAP interview. No semifinalists. All participants give presentation.				
	5. No semifinalists. Judges will provide portfolios on conference day.				
	6. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards Ceremony.				
DECILIATIONS:	Droliminary Dound				
REGULATIONS:	Preliminary Round Delete F.1. No LEAP Report.				
	No Semifinal Round				
	D. NJ TSA will provide computer, projector and screen.				
	Delete I. No LEAP Report. No LEAP interview.				
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on				
	student projects.				
EVALUATION:	Preliminary Round No change.				

### No Semifinal Round

1-5. No semifinalists. All students present lesson plan/activity.

Delete 6. No LEAP Report. No LEAP interview.

Evaluation is based on 150 points:

- Documentation (70)
- Presentation (No LEAP Report/Interview) (70)
- Possible bonus points for audio/visuals (10)

### **Music Production**

### **Pre-Conference Event**

OVERVIEW:	No change
ELIGIBILITY:	1 individual, or 1 team of up to 6 members per chapter.
TIME LIMITS:	Preliminary Round No change.  No Semifinal Round Delete 1-2. No semifinalists. No interview. Entries submitted Pre-Conference. No LEAP interview.
LEAP:	No LEAP Report. No LEAP interview.
ATTIRE:	See Page 6-7 of this guide for required dress code.
PROCEDURE:	Preliminary Round  1. Portfolio and CD submitted Pre-Conference. No LEAP Report.  Delete 3. No semifinalists. Winners are announced at the Awards Ceremony.  No Semifinal Round Delete 1-3. No semifinalists. No on-site component. Entries submitted Pre-Conference. No LEAP interview.  4. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards Ceremony.
REGULATIONS:	Preliminary Round D. Entries may be picked up at the time and place stated in the conference program.  I. CD and documentation materials are submitted Pre-Conference. Delete J.1. No LEAP Report.  No Semifinal Round Delete A. No LEAP Requirements. No LEAP Report. No LEAP interview.  No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.  ID#'s should be labeled on CD, CD case (if included) and portfolio.

<b>EVALUATION:</b>	Preliminary Round
	No change.
	No Semifinal Round  Delete 1-2. No presentation/interview. No LEAP Report. No LEAP interview.
	Evaluation is based on 100 points:  • Documentation (40)  • Musical Piece (60)

### **On Demand Video**

Pre-Conference Event
2019 Theme will be posted on the NJ TSA website at 5pm on February 28, 2019

OVERVIEW:	Participants will write, shoot and edit a sixty (60) second video.
	The theme and any required criteria will be announced on the NJ TSA website at <b>5pm on February 28, 2019.</b>
	The video and documentation must be <b>submitted by 5pm on March 5</b> , <b>2019</b> .
	Entries will be judged and put on display at the State Conference.
	<b>Note:</b> NJ TSA reserves the right to disqualify any entries that contain inappropriate content. These entries will not be judged.
ELIGIBILITY:	1 team of 2-6 members per chapter.
ELIOIDILIT I	r todin or 2 o mombere per chapter.
TIME LIMITS:	Preliminary Round  2. Theme will be posted on the NJ TSA website at 5pm on February 28, 2019. Entries must be received at the NJ TSA Office or postmarked by 5pm on March 5, 2019.
	No Semifinal Round Delete 1. No semifinalists. No LEAP interview. No on-site component.
LEAP:	No LEAP Report. No LEAP interview.
ATTIRE:	See Page 6-7 of this guide for required dress code.
ATTIKE.	See Fage 0-7 of this guide for required dress code.
PROCEDURE:	Preliminary Round  1. Video and documentation submitted electronically by 5pm on March 5, 2019.
	Delete 2. No LEAP Report. No onsite problem.
	3. Theme will be posted on the NJ TSA website at 5pm on February 28, 2019.
	5. Video must be accessible online (e.g. YouTube). URL must be emailed to <a href="mailto:tsachall@tcnj.edu">tsachall@tcnj.edu</a> . Documentation should be included as a PDF attachment. Be sure to include ID# and "On Demand Video Submission" in subject line.
	7. No semifinalists. Winners are announced at the Awards Ceremony.

	No Semifinal Round
	Delete 1-2. No semifinalists. No LEAP interview.
	3. No finalists. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards Ceremony.
REGULATIONS:	Preliminary Round Delete A.5. Entries are completed off-site and submitted Pre- Conference by March 5, 2019.
	B. Participants film their footage off-site and submit them Pre-Conference by March 5, 2019.
	C. Entries become the property of NJ TSA.
	No Semifinal Round Delete A. No LEAP Report. No LEAP interview.
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.
EVALUATION:	Preliminary Round  2. The video must incorporate the specified prop(s) and dialogue presented in the theme posted on the NJ TSA website on February 28, 2019.
	No Semifinal Round No LEAP Report. No LEAP interview.
	Evaluation is based on 100 points:  • Production (100)

### **Optical Engineering**

### Onsite Event

2018 Design Problem will be posted on the NJ TSA website on January 14, 2019

**NOTE**: this event is being offered at the state level only; it is NOT an official TSA competitive event. Follow the guidelines/procedures below to prepare for entry into the state competition.

OVERVIEW:	Participants work as part of a team to design and fabricate an optical device that meets a specific need. The focus will be on the design process; participants should incorporate innovation into their entry/solution.  The solution should incorporate the application of optical and mathematical principles and should assess its impact on the community. Entries will consist of documentation materials and a display (including a prototype/device). Participants will present and defend their solution in a timed presentation.
ELIGIBILITY:	3 teams of 3-6 members per chapter
	' '
TIME LIMITS:	Entries must be started and completed during the current school year.
	2. Documentation materials, display and prototype/device are submitted on conference day.
	3. Teams will have 5 minutes to present and defend their solutions to judges.
	Judges may ask questions for an additional 5 minutes at the conclusion of the presentation.
LEAP:	No LEAP Report. No LEAP interview.
ATTIRE:	See Page 6-7 of this guide for required dress code.
PROCEDURE:	1. Participants submit their entries on conference day at the time and place stated in the conference program:     a. documentation materials (portfolio) in a clear front report cover.     b. display     c. prototype/device
	2. Teams sign up for a presentation time.  3. Fach team explains its research and colution to the challenge.
	<ul><li>3. Each team explains its research and solution to the challenge</li><li>4. Entries are reviewed by a panel of Edmund Optics Engineers.</li><li>Neither students nor advisors are present at this time.</li></ul>

	5 The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards Ceremony.				
	6. Entries remain on display after judging. Teams should pick up their entries before departing on conference day.				
REGULATIONS:	A. Teams must demonstrate a firm understanding of the challenge and problem they are addressing. A team's entry must reflect thorough and serious research, as well as a creative and plausible solution.				
	3. A team's solution must include likely impacts to the environment, economy, and society, as well as any important ethical considerations, and/or political ramifications.				
	C. Documentation materials (comprising "a portfolio") are required and should be secured in a clear front report cover. The report cover mus include the following single sided 81/2" x 11" pages, in this order:				
	Title page with the challenge listed, event title, the conference city and state, and the year; one (1) page				
	Table of contents; pages as needed				
	3. Definition of the challenge/problem; one (1) page				
	4. Explanation of importance: Explain why the problem is important to society and describe the necessary scientific and technical concepts, as well as current issues related to the challenge; two (2) pages				
	<ol> <li>Pages titled "Problem Solution": Present the solution for the identified problem, with support from scientific concepts and principles drawn from evidence. Mathematical and graphic models should be included as necessary, as well as photographs of any physical models developed; seven (7) pages, maximum</li> </ol>				
	Patent Application: to include specification, drawing, and oath or declaration (refer to www.uspto.gov)				
	<ol> <li>Plan of Work log that covers the life of the project including date, task, time involved, team member responsible, and comments (see Forms Appendix or TSA website); pages as needed</li> </ol>				
	8. Page(s) titled "References and Resources" that cite books, interviews, professional journals, websites, etc., using Modern				

	Language Association (MLA) style; pages as needed D. The size of the display may not exceed 15" deep x 3' wide x 4' high.
	E. A physical device (or prototype/s) is/are required and must remain within the display limits at all times (including during judging).
	F. If the display or physical model/s or prototype/s require power, they must be powered by dry cell(s) or photo-voltaic cells.
	The power supply must fit inside the display area.
	2. All power must be off once the team has completed set-up.
	3. Complete instructions must be provided for the judges to press one (1) button or flip one (1) switch to turn on the power supply for judging.
	H. No harmful or illegal substances are permitted. No viruses, live plants, or animals are permitted. No dangerous processes, experiments, or physical models may be displayed or demonstrated.
	I. During the presentation, each team will be given five (5) minutes to present and defend its entry to the judges.
	1. Judges may ask questions during the team's presentation for purposes of improved clarity and understanding and may also ask questions for an additional five (5) minutes at the conclusion of the presentation.
	2. During the presentation/interview teams will be expected to use their posters to enhance and explain their proposed solution/s to the challenge and problem addressed.
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.
EVALUATION:	<ul> <li>Evaluation is based on 230 points:</li> <li>Documentation (120)</li> <li>Display (including prototype/device) (50)</li> <li>Presentation/Interview (60)</li> </ul>
	Please see the rating form on the following pages.
	J 17 - J
STEM INTEGRATION:	This event aligns with the STEM educational standards noted below. Science, Technology, Engineering, Mathematics
PRIMARY LEADERSHIP	Leadership skills promoted in this event:  • COMMUNICATION — Students choose an existing design

SKILLS:	problem and develop and explain their solution. Suggested leadership lessons: Personality Types and Promote It  • CRITICAL THINKING — Students analyze and evaluate a problem in order to develop an acceptable solution. Suggested leadership lessons: And The Answer Is and Critical Thinking Tips  • PROBLEM SOLVING — Students devise a plan that will yield an acceptable solution. Suggested leadership lessons: Debate It and Effective Brainstorming  Additional leadership skills promoted in this event: creative thinking, decision making, ethics, evaluation, organization, teamwork
TSA AND CAREERS:	This competition connects to one or more of the career areas featured in the TSA AND CAREERS section of the National TSA Competitive Events Guide. Use <i>The 16 Career Clusters</i> chart and the <i>TSA Competitions and The 16 Career Clusters</i> grid as resources for information about careers.
CAREERS RELATED	Optical engineer
TO THIS EVENT:	Mechanical engineer
	Manufacturing consultant
	Mathematician
	CAD Technician

		ENCINEEDING		
		<b>ENGINEERING</b>		
2019 OFFICIAL RATING	FORM		HIGH SCH	OOL
ODITEDIA	Minimal	Adamata Darfarrana	Francisco Desferos esca	
CRITERIA	Minimal performance 1-4 points	Adequate Performance 5-8 points	Exemplary Performance 9-10	scores i column below.
record the scores earned for column is a multiplier factor for points; an "adequate" score of	4 points), adequate (5-8 points) or the event criteria in the column spa or determining the points earned. ( if 7 for an X2 criterion = 14 points;	aces to the far right. The X1, X2 o Example: an "adequate" score of	or X3 notation in the criteria 7 for an X1 criterion = 7	scores in the column spaces below.
Documentation (120 Poi	<u> </u>			1
Portfolio components (X1)	Portfolio is unorganized and/or is missing three or more components.	Portfolio has most components and is generally organized.	Portfolio has all required components and is well organized.	
Problem definition (X1)	The problem is not clearly written or defined; the problem does not fall within the grand challenge selected.	The problem is somewhat clearly written and defined.	The problem is clearly written, concise, and well defined; the problem falls within the grand challenge selected.	
Explanation of importance (X2)	There is little evidence of research; there is a lack of understanding of the issues cited.	There is some evidence of research; an adequate understanding of the issues is present.	Thorough research is clearly evident with a firm understanding of the issues established.	
Problem solution (X4)	A very brief explanation of the final solution is presented; there is a lack of creativity; descriptions are weak.	An adequate description of the solution is presented and supported by some amount of research and evidence; the solution is somewhat creative.	The solution is supported by the research gathered and scientific and engineering evidence; the solution is plausible and creative.	
Patent application (X2)	The patent application is incomplete, poorly worded, or missing.	The patent application is complete, but adequately worded, with somewhat effective drawings.	The patent application is complete and effective in presenting the inventor's product design.	
Plan of Work log (X1)	The log is poorly organized and/or incomplete.	The log is adequately detailed, organized, and contains most of the required components.	The log is very well done and contains all the required components.	
References and resources (X1)	There are few references listed, and/or references listed show little relevance to the project's goal.	There are a sufficient number and quality of references listed.	Many quality references are listed, reflecting research in the areas covered.	
		DOCUMENTATIO	N SUBTOTAL (120 points)	
Display and Model (50 Po	oints)			
Aesthetics (X1)	The display design is unattractive in appearance and shows a lack of understanding of graphic design principles.	The display design is somewhat attractive and shows an adequate understanding of the use of graphic design principles.	The display is of professional quality with an exemplary use of graphic design principles.	
Model/Prototype (X1)	Model is confusing and does not represent and/or support the proposed problem solution.	Model provides adequate representation and support of the proposed problem solution.	Model provides excellent representation and support of the proposed problem solution.	
Overall impact (X3)	The display and model does not detail or enhance the essential components of the team's problem identification and solution.	The display and model somewhat detail and enhance the essential components of the team's problem identification and solution.	The display and model greatly detail and enhance the essential components of the team's problem identification and solution.	

	20% of the total possible points e event. Record the deduction in	for the above sections) must be the space to the right.	initialed by the judge,	
Presentation/Interview (60	Points)			
Organization (X1)	Team seems unprepared and unorganized for the presentation/ interview, with an illogical explanation of the project.	Team is prepared for the interview and is somewhat organized in its presentation to judges; team's presentation thesis is, for the most part, logical and/or clear.	Team's presentation/interview with judges is well organized; the interview is concise and logical, with a clear explanation of the development of the project.	
Knowledge (X1)	Team members seem to have little understanding of the concepts in their project; vague interview answers are provided.	Team members have a generalized understanding of the concepts discussed and answer questions adequately.	Evidence is clear that team members have a thorough understanding of the concepts discussed; they answer questions thoroughly.	
Articulation (X1)	The presentation and interview provide an unclear, unorganized, and or illogical description of the project.	The presentation and interview offer a somewhat logical and easy-to-understand project description.	The presentation/interview provides a clear, concise, and easy-to-follow description of the project.	
Delivery (X1)	The team is verbose and/or uncertain in its presentation/ interview; participants' posture, gestures, and lack of eye contact diminish the delivery.	The team is somewhat well- spoken and clear in its presentation/ interview; participants' posture, gestures, and eye contact result in an acceptable delivery.	The team is well-spoken and distinct in its presentation/ interview; participants' posture, gestures, and eye contact result in a polished, natural, and effective delivery.	
Team participation (X1)	Only one person in the group communicates with judges; there is little or no participation from other team members.	Team members all participate to some extent and seem to understand the concepts.	Team members seem to fully understand the concepts and share an equal role in the interview.	
Responses to judges' questions (X1)	The team's answers to questions reflect a lack of understanding and sophistication; only one or two team members contribute.	The team's answers to questions reflect an adequate degree of understanding and sophistication; team members all participate somewhat.	The team's answers to questions reflect a high degree of understanding and sophistication; team members participate equally.	
	PRESENTATION/INTERVIEW SUBTOTAL (60 points)			
Rules violations (a deduction of 20% of the total possible points for the above sections) must be initialed by the judge, coordinator, and manager of the event. Record the deduction in the space to the right.  Indicate the rule violated:  To arrive at TOTAL score, add any subtotals and subtract rules violation points, as necessary.  TOTAL (230 points)				
	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Comments:				
I certify these results to be true and accurate to the best of my knowledge.  Evaluator				
Printed Name:	Sign	ature:		

### **Photographic Technology**

### **Pre-Conference Event**

2019 Theme:

This year participants have the opportunity to show their photography skills working with different lighting conditions. Participants must create a portfolio featuring five (5) pictures. Please note that picture #1 must contain people and/or animals. All other pictures may or may not have people or animals in them. Make sure to read the event rules for further directions.

- Picture #1: Color picture that must contain a person or people and/or an animal(s) taken in bright afternoon sunlight (between 11 AM and 2 PM). In the photo's description, state the time that the picture was taken.
- Picture #2: Color picture taken outside during sunrise or sunset
- Picture #3: Black and white picture working with fluorescent lighting
- · Picture #4: Black and white picture taken using candlelight
- Picture #5: Student choice as to whether it is color or black and white Options for the light source:
  - Moonlight
  - Starlight
  - Nightlight
  - Spotlight
  - Flashlight

F _		
OVERVIEW:	No semifinalists. No on-site problem. Entries submitted Pre-	
	Conference.	
ELIGIBILITY:	1 individual per chapter	
TIME LIMITS:	No semifinalists. No on-site component. Entries submitted Pre-	
111112 2111111 01	Conference.	
	Contended.	
LEAD	N JEAR R ( N JEAR); ( )	
LEAP:	No LEAP Report. No LEAP interview.	
ATTIRE:	See Page 6-7 of this guide for required dress code.	
PROCEDURE:	Preliminary Round	
	1. Entries are submitted Pre-Conference on a USB flash drive. No	
	LEAP Report.	
	LLAF Neport.	
	O Nie see'S eel'ete Wiesense en een eel et tie A eele	
	3. No semifinalists. Winners are announced at the Awards	
	Ceremony.	
	No Semifinal Round	
	Delete 1-9. No on-site component. Entries submitted Pre-	
	Conference. No LEAP Report. No LEAP interview.	
	Comoronico. No LEAN TRoport. No LEAN Interview.	
	10. The 1st 2nd and 2rd place winners are appearanced at the Awards	
	10. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards	

	Ceremony.	
REGULATIONS:	Preliminary Round  B. Images and documentation are submitted Pre-Conference on a USB flash drive.	
	Delete L.1. No LEAP Report. M. Change National TSA Conference to NJ TSA State Conference.	
	No Semifinal Round Delete A-L. No semifinalists. No on-site component. Entries are submitted Pre-Conference. No LEAP Report. No LEAP interview.	
	Please read Regulations carefully, paying close attention to image size requirements, order of pages, etc.	
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.	
	ID#'s should be labeled on USB drives.	
EVALUATION:	1. No semifinal round.	
	2. No semifinalists.  Delete 3-4. No LEAP Report. No LEAP interview. No on-site component.	
	Evaluation is based on 60 points:  • Portfolio (60)	

# Prepared Presentation On-Site Event The 2019 topic will be posted on the NJ TSA website on April 10, 2019

TIME LIMITS:  3. NJ TSA will provide a computer, projector and screen. Delete 5. No semifinalists. No LEAP interview.  LEAP: No LEAP Report. No LEAP interview.  ATTIRE: See Page 6-7 of this guide for required dress code.  Preliminary Round 1. No LEAP Report. 2. The assigned topic will be posted on the NJ TSA website on April 10, 2019. 4. NJ TSA will provide a computer, projector and screen. 5. No semifinal Round Delete 1-4. No semifinalists. No LEAP Report. No LEAP interview. 5. The 1st, 2nd and 3rd place winners are announced at the Awards Ceremony.  REGULATIONS: Preliminary Round (No Semifinal Round) B. The topic will be posted on the NJ TSA website at 5pm on April 10, 2019.  F-G. NJ TSA will provide a computer, projector and screen. H. NJ TSA will provide the table (and projection screen). 1.2. NJ TSA will provide a computer, projector and screen. Delete J. No observers allowed.	OVERVIEW:	The assigned topic will be posted on the NJ TSA website on April 10, 2019 at 5pm.
TIME LIMITS:  3. NJ TSA will provide a computer, projector and screen.  Delete 5. No semifinalists. No LEAP interview.  No LEAP Report. No LEAP interview.  ATTIRE:  See Page 6-7 of this guide for required dress code.  Preliminary Round 1. No LEAP Report.  2. The assigned topic will be posted on the NJ TSA website on April 10, 2019.  4. NJ TSA will provide a computer, projector and screen.  5. No semifinalists. Winners are announced at the Awards Ceremony.  No Semifinal Round Delete 1-4. No semifinalists. No LEAP Report. No LEAP interview.  5. The 1st, 2nd and 3rd place winners are announced at the Awards Ceremony.  Preliminary Round (No Semifinal Round) B. The topic will be posted on the NJ TSA website at 5pm on April 10, 2019.  F-G. NJ TSA will provide a computer, projector and screen.  H. NJ TSA will provide the table (and projection screen).  1.2. NJ TSA will provide a computer, projector and screen.		
Delete 5. No semifinalists. No LEAP interview.  ATTIRE:  See Page 6-7 of this guide for required dress code.  PROCEDURE:  Preliminary Round 1. No LEAP Report.  2. The assigned topic will be posted on the NJ TSA website on April 10, 2019.  4. NJ TSA will provide a computer, projector and screen.  5. No semifinal Round Delete 1-4. No semifinalists. No LEAP Report. No LEAP interview.  5. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards Ceremony.  REGULATIONS:  Preliminary Round (No Semifinal Round) B. The topic will be posted on the NJ TSA website at 5pm on April 10, 2019.  F-G. NJ TSA will provide a computer, projector and screen.  H. NJ TSA will provide the table (and projection screen).  1.2. NJ TSA will provide a computer, projector and screen.	ELIGIBILITY:	1 individual per chapter
Delete 5. No semifinalists. No LEAP interview.  ATTIRE:  See Page 6-7 of this guide for required dress code.  PROCEDURE:  Preliminary Round 1. No LEAP Report.  2. The assigned topic will be posted on the NJ TSA website on April 10, 2019.  4. NJ TSA will provide a computer, projector and screen.  5. No semifinal Round Delete 1-4. No semifinalists. No LEAP Report. No LEAP interview.  5. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards Ceremony.  REGULATIONS:  Preliminary Round (No Semifinal Round) B. The topic will be posted on the NJ TSA website at 5pm on April 10, 2019.  F-G. NJ TSA will provide a computer, projector and screen.  H. NJ TSA will provide the table (and projection screen).  1.2. NJ TSA will provide a computer, projector and screen.		
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I.2. NJ TSA will provide a computer, projector and screen.		
		H. NJ TSA will provide the table (and projection screen).
Delete J. No observers allowed.		I.2. NJ TSA will provide a computer, projector and screen.
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Delete K. No LEAP Report. No LEAP interview.		Delete K. No LEAP Report. No LEAP interview.
·		· ·
Delete K. No LEAP Report. No LEAP interview.		Delete K. No LEAP Report. No LEAP interview.

EVALUATION:	Delete 3. No LEAP Report. No LEAP interview.	
	Evaluation is based on 100 points:	
	Documentation (30)	
	Stage Presence (30)	
	Organization (40)	

# Promotional Design Pre-Conference Event

OVERVIEW:	No semifinalists. No on-site problem. Entries submitted Pre- Conference.	
ELIGIBILITY:	2 individuals per chapter	
LLIGIBILITT.	2 individuals per chapter	
TIME LIMITS:	Delete 1-2. No semifinalists. Entries submitted Pre-Conference. No on-site portion of the event. No LEAP interview.	
LEAP:	No LEAP Report. No LEAP interview.	
	The LEFT Treports The LEFT Trees The Trees Trees	
ATTIRE:	See Page 6-7 of this guide for required dress code.	
PROCEDURE:	Preliminary Round  1. Entries are submitted Pre-Conference. No LEAP Report.  3. No semifinalists. Winners are announced at the Awards	
	Ceremony.	
	Entries are displayed on conference day. Participants should pick up entries prior to departing the conference.	
	No Semifinal Round Delete 1-5. No semifinalists. No on-site component. No LEAP Report. No LEAP interview.	
	6. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards Ceremony.	
DECLU ATIONS	Bulliulian Bund	
REGULATIONS:	Preliminary Round 7. Change National TSA Conference to NJ TSA State Conference.	
	No Semifinal Round	
	Delete A-I. No semifinalists. No on-site component. No LEAP Report. No LEAP interview.	
	No school or individual names labeled on projects; only ID#'s	
	are to be used. Upon registering students online, they are	
	automatically assigned an ID#. This number needs to be on student projects.	
EVALUATION:	Preliminary Round No change.	
	No Semifinal Round Delete 1-2. No semifinalists. No LEAP Report. No LEAP interview.	

Promotional Folder Contents (70)
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# Scientific and Technical Visualization (SciVis) Pre-Conference Event

OVERVIEW:	No change.	
ELIGIBILITY:	3 individuals, or 3 teams of up to 6 members per chapter.	
TIME LIMITS:	Preliminary Round No change.  No Semifinal Round	
	Delete 1-2. No semifinalists. No interview. No LEAP interview. Entries submitted Pre-Conference.	
	Entitled dubinitied i Te definerence.	
LEAP:	No LEAP Report. No LEAP interview.	
ATTIDE	One Daniel O 7 of the control of the	
ATTIRE:	See Page 6-7 of this guide for required dress code.	
PROCEDURE:	Preliminary Round  1. Entries submitted Pre-Conference. No LEAP Report.	
	3. No semifinalists. Winners are announced at the Awards Ceremony.	
	No Semifinal Round Delete 1-3. No semifinalists. No interview. No LEAP interview. Entries submitted Pre-Conference.	
	4. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards Ceremony.	
DECLII ATIONS	Draliminant Daund	
REGULATIONS:	Preliminary Round  B. Entries are displayed on conference day. Participants should pick up entries prior to departing the conference.	
	Delete C.2.b. No LEAP Report.	
	No Semifinal Round Delete A-B. No semifinalists. No interview. No LEAP Report. No LEAP interview.	
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.	
EVALUATION:	Preliminary Round No change.	

No Semifinal Round Delete 1-2. No semifinalists. No interview. No LEAP Report. No LEAP interview.
Evaluation is based on 110 points:  Documentation (40) Visualization (70)

# Software Development On-Site Event

OVERVIEW:	No change.	
ELIQIDII ITV		
ELIGIBILITY:	3 teams of up to 6 members per chapter	
TIME LIMITS:	Delete 2. No semifinalists. No LEAP interview.	
THE LIMITO.	Delete 2. INO Serriminalists. INO EE/A Interview.	
LEAP:	No LEAP Report. No LEAP interview.	
	NO LEAP REPORT. NO LEAP INTERVIEW.	
ATTIRE:	See Page 6-7 of this guide for required dress code.	
PROCEDURE:	Preliminary Round	
	1. No LEAP Report.	
	6. No semifinalists. Winners are announced at the Awards	
	Ceremony.	
	No Semifinal Round	
	Delete 1-2. No semifinalists. No LEAP Report. No LEAP interview.	
	3. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards	
	Ceremony.	
REGULATIONS:	Preliminary Round	
	Delete A.1. No LEAP Report.	
	B. Entries are picked up by participants at the time and place stated	
	in the conference program.	
	D. Change National TSA to NJ TSA.	
	No Semifinal Round	
	Delete A. No LEAP Report. No LEAP interview.	
	Delete 7 ii 110 EE7 ii 110 EE7 ii 1110 IVION	
	No school or individual names labeled on projects; only ID#'s	
	are to be used. Upon registering students online, they are	
	automatically assigned an ID#. This number needs to be on	
	student projects.	
EVALUATION:	Preliminary Round	
	No change.	
	No Semifinal Round	
	No LEAP Report. No LEAP interview.	
	Evaluation is based on 160 points:	
<u> </u>	, and the second	

•	Documentation (40)
•	Software Design (60)
•	Presentation (60)

Structural Design and Engineering
On-Site Event
2019 Problem Statement and Forms: <a href="http://www.tsaweb.org/Themes-and-">http://www.tsaweb.org/Themes-and-</a> Problems

OVERVIEW:	There is no on-site semifinalist construction problem. No
	semifinalists. All groups are present for the testing of their Pre-Built
	Structures.
ELIGIBILITY:	1 team of 2 members per chapter
ELIGIBILIT.	r team of 2 members per chapter
SAFETY EYEWEAR:	No on-site phase of this event. Students must bring their own safety glasses. They must be worn in any marked safety zones within the competition room.
TIME LIMITS:	Preliminary Round No change.  No Semifinal Round
	Delete 1-3. No semifinalists. No on-site construction. No LEAP interview.
LEAP:	No LEAP Report. No LEAP interview.
	140 LE/ II Troport. 140 LE/ II Interview.
ATTIRE:	See Page 6-7 of this guide for required dress code.
	J
PRELIMINARY ROUND:	Pre-Built Structure Regulations Delete B.1. No LEAP Report.
	All participants bring the following on conference day to be evaluated/tested:  • Pre-Built Structure
	Documentation materials including:
	Title page
	Table of contents
	Team Verification Form
	<ul><li>Analysis and Assessment Form</li><li>Drawing</li></ul>
	Onsite Destructive Testing of Pre-Built Structures Procedure D-E. No semifinalists. No onsite problem. 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards Ceremony.
SEMIFINAL ROUND:	No Semifinalist Onsite Construction and Destructive Testing
	Procedure
	Delete A-T. No semifinalists. No onsite construction. No LEAP Report. No LEAP interview.
	Procedure for Evaluation of Structures (Pre-Built Structures)

	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.
EVALUATION:	All structures meeting requirements will be tested. Rank will be determined by the efficiency rating.  No onsite construction. No LEAP Report. No LEAP interview.

System Control Technology

Static Event

2019 Design Problem will be posted on the NJ TSA website on January 14, 2019

OVERVIEW:	Delete "onsite." Model is constructed off-site during the school year.
ELIGIBILITY:	2 teams of 3 members per chapter
TIME LIMITS:	1. The design problem will be posted on the NJ TSA website on January 14, 2019. Model is constructed off-site. No on-site portion.
	2. There will be a 15 minute set up time (students set up completed model and leave instructions for evaluators to operate the device).
	Delete 3-5. Model is constructed off-site. No on-site portion. No LEAP interview.
LEAP:	No LEAP Report. No LEAP interview.
LEAP.	NO LEAF REPORT. NO LEAF INTERVIEW.
ATTIRE:	See Page 6-7 of this guide for required dress code.
711111	guine for to quite and a second
PROCEDURE:	Preliminary Round  Delete 1-7. All components of project constructed off-site. Instructions must be left for evaluators to operate the device during evaluation. No LEAP Report. No LEAP interview.
	8. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards Ceremony.
REGULATIONS:	Preliminary Round Delete H. No LEAP Report. No LEAP interview.
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.
EVALUATION:	Preliminary Round Delete 4. No LEAP Report. No LEAP interview.
	<ul> <li>Evaluation is based on 100 points:</li> <li>Inventor's Log (20)</li> <li>Solution to Problem (60)</li> <li>Programming Structure (20)</li> </ul>

# Technology Bowl On-Site Event

team of 3 members per chapter  Preliminary Round
Preliminary Round
. Forty-five (45) minutes is allowed for the written test.
lo Semifinal Round . No semifinalists. All teams will participate in the oral competition. No EAP interview.
lo LEAP Report. No LEAP interview.
to LEAF Report. No LEAF Interview.
see Page 6-7 of this guide for required dress code.
Pelete ALL. Follow the procedures listed below:
<ul> <li>A. Following the written test, team members will report to the oral event area holding room for briefing at the designated time. After briefing, advisors must leave and the team will remain in the holding room until called for competition. Teams may visit with other teams; however, no advisors or visitors may enter the holding room.</li> <li>B. No audience members are permitted into the oral event area.</li> <li>C. When instructed to do so, two (2) teams will enter the event area and be seated according to instructions.</li> <li>D. When a team has been defeated in any round of the oral event, the team is out of the competition.</li> <li>E. Questions will be drawn, as needed, from a card file resource bank.</li> <li>F. A team's total score is derived from the correct answers to the questions asked. For each correct answer, a team will receive ten (10) points. When a question has been completely read and a team is recognized to answer, if the team does not answer or answers incorrectly, five (5) points will be deducted from the team's score. In this instance, the other team does not have the opportunity to respond to this question, and the next question is read for both teams. If is question is being read and a team member presses the button before the question is finished, the member must answer completely as stated on the answer card. If the answer given is incorrect, the entire question will be read for the other team.</li> <li>G. A total of twelve (12) questions will be asked per round. No questions will be repeated in another round. In the case of the</li> </ul>
E

	continue until the tie is broken. The questions will be picked at random from the basic areas tested.  H. Bonus Question There will be one additional question (bonus question). The bonus question will be announced, and the team that answers it correctly will have the opportunity to answer one additional question. This is the only time when team members may consult with each other before giving an answer. The team will have ten (10) seconds to give its answer. If a team gives an incorrect answer to the bonus question, then the question will be read to the other team. Bonus point scoring: If a team answers the bonus correctly, that team receives fifteen (15) points; if a team answers the bonus incorrectly, that team loses five (5) points from its score.  I. A panel of evaluators will be available to respond to questions concerning acceptable answers.  1. Rulings on acceptable answers will be made only during the round in question.  2. Rulings will be made immediately, to do one of the following: a. Accept only the answers listed on the card. b. Accept the student's answer and renew points, or remove the question and read another in its place. c. The rulings of the panel will be final.
REGULATIONS:	Delete ALL Follow regulations listed below:
REGULATIONS:	Delete ALL. Follow regulations listed below:
	<ul> <li>A. No transmitting or recording devices, including cell phones, will be permitted in the event area. No prompting will be permitted.</li> <li>B. The team member who "buzzes in" will have five (5) seconds to answer the question, without discussion.</li> <li>C. The team that answers the bonus question will be allowed ten (10) seconds to discuss the extra question and give an answer.</li> <li>D. After a question is read, the competing teams will have ten (10) seconds to answer. If neither team can answer the question, then another question will be read.</li> <li>E. If a team member "buzzes in" before a question is finished being read, that member must give the exact answer as printed on the card.</li> </ul>
EVALUATION:	Delete ALL. Follow evaluation listed below:
	Evaluation is based on the total points from the three written tests plus the total points from the oral competition. Awards will be given to the top three (3) teams. No LEAP Report. No LEAP interview.

## Technology Problem Solving On-Site Event

OVERVIEW:	No change
ELIGIBILITY:	1 team of 2 members per chapter
TIME LIMITS:	Droliminory Dound
TIME LIMITS:	Preliminary Round No change.
	ivo change.
	No Semifinal Round
	No semifinalists. No LEAP interview.
LEAP:	No LEAP Report. No LEAP interview.
ATTIDE	One Dans C.7 of this swide for required drags and
ATTIRE:	See Page 6-7 of this guide for required dress code.
PROCEDURE:	Preliminary Round
	1. No LEAP Report.
	· ·
	5. No semifinalists. Winners are announced at the Awards Ceremony.
	No Semifinal Round
	Delete 1-3. No semifinalists. No LEAP Report. No LEAP interview.
	4. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners announced at the Awards
	Ceremony.
REGULATIONS:	Preliminary Round
	B. NJ TSA will provide all necessary tools and materials.
	Delete D-G. NJ TSA will provide all necessary tools and materials.
	Each team member must bring his/her own safety glasses.
	No Semifinal Round
	Delete A. No LEAP Report. No LEAP interview.
EVALUATION:	Preliminary Round
	2. Scoring will be outlined on the design brief, which teams will receive
	on conference day.
	No Consideral Days d
	No Semifinal Round
	No LEAP Report. No LEAP interview.

Transportation Modeling
Static Event
2019 Theme: Maglev City People Mover (for inner city point-to-point movement)

OVERVIEW:	No change
ELIGIBILITY:	2 individuals per chapter
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TIME LIMITS:	No semifinalists. No LEAP interview. No on-site component.
LEAP:	No LEAP Report. No LEAP interview.
ATTIRE:	See Page 6-7 of this guide for required dress code.
ATTINE.	oce r age o-r or this guide for required dress code.
PROCEDURE:	Preliminary Round
	Entries are submitted on conference day. No LEAP Report.
	No semifinalists. Static event. Winners are announced at the Awards Ceremony.
	No Semifinal Round Delete 1-2. No semifinalists. No LEAP Report. No LEAP interview.
	3. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards Ceremony.
REGULATIONS:	Preliminary Round Delete Documentation 2.a. No LEAP Report.
	No Semifinal Round Delete A. No LEAP Report. No LEAP interview.
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.
EVALUATION.	Drafficein and Davind
EVALUATION:	Preliminary Round No change.
	No Semifinal Round No LEAP Report. No LEAP interview.
	Evaluation is based on 120 points:
	Model and Display (50)
	Documentation (70)

### **VEX Robotics**

### **On-Site Event**

OVERVIEW:	For the 2019 TSA VRC Competition Guidelines, please go to
	http://tsaweb.org/competitions-programs/vex-robotics
	Questions related to VEX should be directed to:
	Matt Merfeld at the National TSA Office: <a href="mmerfeld@gsd404.org">mmerfeld@gsd404.org</a> or
	Henry Harms, NJ TSA Competitive Event Coordinator:  harms@tcnj.edu
ELIGIBILITY:	1 team of up to 6 members per chapter.
	NOTE: Teams that intend to compete at the National TSA VEX competition in June 2019 must register with RobotEvents.com by March 1, 2019.
TIME LIMITO	The MEX consection will be been accounted to 0.00 consecution to
TIME LIMITS:	The VEX competition will be begin promptly at 9:30am on April 13, 2019 and will conclude when the Head-to-Head Tournament is completed (approximately 3pm).
LEAP:	No LEAP Report. No LEAP interview.
ATTIRE:	See Page 6-7 of this guide for required dress code.
	general and general required an occurrence
PROCEDURE:	The VEX competition at the NJ TSA State Conference on April 13, 2019 will include the following:
	Skills Challenge
	Head-to-Head Tournament
	Each team will be assigned a table in the competition area where they can store materials, make adjustments to their robot, etc.
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REGULATIONS:	Please go to: <a href="http://tsaweb.org/competitions-programs/vex-robotics">http://tsaweb.org/competitions-programs/vex-robotics</a>
EVALUATION:	Please go to: http://tsaweb.org/competitions-programs/vex-robotics
ETALUATION.	1 lodge ge to. http://touweb.org/competitions.programs/vex lobotics

### **Video Game Design**

### Pre-Conference Event

Participants focus on the idea of their choice, within the context of the 2019 theme: Role Playing Game that is TSA focused. Please click <a href="here">here</a> for more information about TSA focused.

OVERVIEW:	No semifinalists. No onsite component. Entries submitted Pre- Conference.
ELIGIBILITY:	1 team of up to 6 members per chapter.
TIME LIMITS:	Preliminary Round  1. Entries must be received (via email) and accessible via the Internet by 6:00pm on March 21, 2019.
	3. Emails will be time stamped and will serve as proof of submitting project on time.
	45. Judges will view and evaluate the first five (5) minutes of the game.
	No Semifinal Round Delete 1-2. No semifinalists. No on-site component. No LEAP Report. No LEAP interview.
LEAP:	No LEAP Report. No LEAP interview.
LLAF.	NO LEAF REPORT. NO LEAF INTERVIEW.
ATTIRE:	See Page 6-7 of this guide for required dress code.
PROCEDURE:	Preliminary Round  1. No LEAP Report. Video game and documentation must be received by 6:00 pm on March 21, 2019.
	2. The game and documentation must be located online and accessible for evaluation. URL's are to be emailed to <a href="mailto:tsachall@tcnj.edu">tsachall@tcnj.edu</a> by 6:00pm on March 21, 2019. Be sure to include ID# and "Video Game Submission" in subject line.
	4. Entries are judged prior to the State Conference and put on display on conference day.
	5. No semifinalists. Winners are announced at the Awards Ceremony.
	No Semifinal Round Delete 1-5. No semifinalists. No on-site component. No LEAP Report. No LEAP interview. 6. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards

	Ceremony.
	No school or individual names labeled on projects; only ID#'s are to be used. Upon registering students online, they are automatically assigned an ID#. This number needs to be on student projects.
REGULATIONS:	Preliminary Round  F. Judges will view and evaluate the first five minutes of the game.
	H. The required documentation must be located online. It is NOT to be submitted as a PDF attachment.
	Delete H.1. No LEAP Report.
	I. Change TSA to NJ TSA.
	No Semifinal Round Delete A-B. No semifinalists. No LEAP Report. No LEAP interview.
EVALUATION.	Dralinsin and Davind
EVALUATION:	Preliminary Round 3. The first five minutes of the game will be evaluated.
	No Semifinal Round Delete 1-2. No semifinalists. No LEAP Report. No LEAP interview.
	Evaluation is based on 115 points:  • Documentation (30)
	Game design (70)
	<ul> <li>Possible bonus points for exceptional game features (15)</li> </ul>

## Webmaster

Pre-Conference Event
2019 Topic: <a href="http://www.tsaweb.org/Themes-and-Problems">http://www.tsaweb.org/Themes-and-Problems</a>

OVERVIEW:	No semifinalists. No on-site component. Entries submitted Pre- Conference.
	A copy of the design brief can be found at:
	http://www.tsaweb.org/Themes-and-Problems
ELIQIDII ITV	A to any of 2.5 months are non-shorten
ELIGIBILITY:	1 team of 3-5 members per chapter.
TIME LIMITS	1. The URL must be emailed to <a href="mailto:tsachall@tcnj.edu">tsachall@tcnj.edu</a> by 6:00pm on March 21, 2019. Be sure to include ID# and "Webmaster Submission" in subject line.
	1.a. After 6:00pm on March 21, 2019, no changes can be made to the website or documentation.
	1.d. All emails will be time stamped and serve as proof of submitting project on time.
	Delete 5-6. (1-2) No semifinalists. No on-site interview. No LEAP interview.
LEAP:	No LEAP Report. No LEAP interview.
	·
ATTIRE:	See Page 6-7 of this guide for required dress code.
PROCEDURE:	Preliminary Round 4. No LEAP Report.
	5. Entries are evaluated prior to the NJ TSA State Conference.
	6. No semifinalists. Winners are announced at the Awards Ceremony.
	No Semifinal Round Delete 1-4. No semifinalists. No on-site interview. No LEAP Report. No LEAP interview.
	5. The 1 <sup>st</sup> , 2 <sup>nd</sup> and 3 <sup>rd</sup> place winners are announced at the Awards Ceremony.
REGULATIONS:	Preliminary Round
NEGOLATIONO.	No change.
	No Semifinal Round Delete A-B. No semifinalists. No on-site interview. No LEAP Report. No LEAP interview.

EVALUATION:	Preliminary Round
	No change.
	No Semifinal Round
	Delete 1-2. No semifinalists. No on-site interview. No LEAP Report. No LEAP interview.
	Evaluation based on 130 points:  • Website (130)