TECHNOLOGY ENGINEERING Hath Science



TECHNOLOGY STUDENT ASSOCIATION TO



2018 NU TSA MIDDLE SCHOOL SUPPLEMENT

COVER ART BY:

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MARLBORO MIDDLE SCHOOL

1ST PLACE PROMOTIONAL MARKETING
2017 NJ TSA STATE MIDDLE SCHOOL CONFERENCE

2017-2018 New Jersey TSA Executive Committee

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Competitive Event Coordinator

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

Business Administrator

Ms. Rebecca Turner, Center for Excellence in STEM Education, Department of Integrative STEM Education, 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, 2018. The Middle School State Conference will be held at The College of New Jersey on March 28, 2018.

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 six 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 Ms. Alison Goeke, NJ TSA State Advisor at (609)771-3244 or goeke2@tcnj.edu or Henry Harms, NJ TSA Competitive Event Coordinator, at harms@tcnj.edu.

General Rules Governing Competitive Events

I. MIDDLE SCHOOL EVENTS

The officially approved Level I New Jersey TSA Competitive Events are:

ON-SITE	PRE-CONFERENCE	STATIC
Challenging Technology Issues 2 teams of 2 members per chapter	Biotechnology 2 teams per chapter	Off the Grid – NEW FOR 2018! 2 teams per chapter
Chapter Team 2 teams of 6 members per chapter	CAD Foundations 2 individuals per chapter	System Control Technology 2 teams of 3 members per chapter
Coding — NEW FOR 2018! 2 teams of 2 members per chapter	Career Prep 2 individuals per chapter	
Construction Challenge 2 teams per chapter	Children's Stories 1 team or individual per chapter	
Electrical Applications 2 individuals per chapter	Community Service Video 1 team or individual per chapter	
Essays on Technology 2 individuals per chapter	Digital Photography 2 individuals per chapter	
Flight 2 individuals per chapter	Dragster 2 individuals per chapter (Top 16 cars raced on conference day)	
Forensic Technology 1 team of 2 members per chapter	Mass Production 2 teams of 2 or more members per chapter	
Inventions and Innovations 1 team of at least 3 members per chapter	Medical Technology 2 teams of 2 or more members per chapter	
Junior Solar Sprint 1 team of 2-4 members per chapter	Promotional Marketing 2 individuals per chapter	
Leadership Strategies 2 teams of 3 members per chapter	STEM Animation 2 teams per chapter	
Mechanical Engineering – NEW FOR 2018! 2 teams of 3-6 members per chapter	Technical Design 2 teams of 2 members per chapter	
Microcontroller Design 2 teams of 3-5 members per chapter	Video Game Design 1 team of 2-6 members per chapter	
Prepared Speech 2 individuals per chapter	Website Design 1 team of 3-6 members per chapter	
Problem Solving 1 team of 2 members per chapter		
Structural Engineering 1 team of 2 members per chapter		
Tech Bowl 1 team of 3 members per chapter		

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 14, 2018

Send to: NJ TSA/Alison Goeke The College of New Jersey 2000 Pennington Rd Armstrong 103 Ewing, NJ 08628

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

- 2. Entries dropped off at the NJ TSA office at The College of New Jersey must be received by **March 14**, **2018**. Please call (609)771-3244 or email (tsa@tcnj.edu) the TSA office to arrange time for delivery.
- A Northern NJ drop off site will be available on March 13, 2018 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 **SIX 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 Community Service Video and Career Prep which require school/student 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 state conference ID number needs to be labeled on every piece of a project/entry (i.e. portfolios, CD's/DVD's, 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 site for a sample report cover.
- F. Please be sure to make a copy of all video/electronic files (e.g. Promotional Marketing, STEM Animation, 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 those competitive events that require it (e.g. laptops, projectors, etc.).
- 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 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 otherwise 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: http://www.tsaweb.org/Dress-Code

NOTE: All students participating at the 2018 National TSA Conference will be required to wear the Official TSA Shirt (royal blue). Students are strongly encouraged to wear the Official TSA Shirt to the 2018 NJ TSA 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 gray

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:
 A collared shirt/blouse, long pants (no shorts or jeans), dresses/skirts, socks/hosiery and 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 their total</u> score of each event entered and will not be granted entry into the awards ceremony.

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 NJ TSA are not responsible for damage to or loss of property brought to the conference.

VI. AWARDS

TSA Achievement Program

The TSA Achievement Program (bronze, silver, gold awards) is designed to motivate and recognize student members for high effort in a school's technology education program. Bronze, silver, and gold pins will be awarded at the Middle School State Conference. Please provide Alison Goeke (goeke2@tcnj.edu / Fax# 609-771-3330) with completed forms/Activity Resumes by 5:00pm on March 14, 2018. Go to http://www.tsaweb.org/Student-Achievement-Awards to view and print forms.

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. Please send completed forms to Alison Goeke (goeke2@tcnj.edu/Fax#609-771-3330) by 5:00pm on March 14, 2018. Go to http://www.tsaweb.org/Student-Achievement-Awards to view and print forms.

VII. IMPORTANT DATES AND DEADLINES

January 15, 2018

State Conference Registration OPENS

January 15, 2018

- Design Problems for the following events posted on the <u>NJ TSA website</u>:
 - CAD Foundations
 - System Control Technology
- <u>Note</u>- all other design problems/themes for 2018 can be found on the <u>National TSA</u> website

March 1, 2018

Technical Design brief posted at 5pm on NJ TSA website

March 6, 2018

• Technical Design entries must be received by the NJ TSA office, or postmarked, by 5pm.

March 13, 2018

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

March 14, 2018

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

March 14, 2018

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

March 15, 2018

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

March 28, 2018

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

June 22-26, 2018

National TSA Conference, Orlando, Florida

Plan now to attend the

40th Annual National TSA Conference June 22-26, 2018 World Congress Center Atlanta, Georgia

Theme: "A Celebration of Success"

<u>Level I – Middle School Events</u>

Biotechnology Pre-Conference Event

OVERVIEW:	No semifinalists. No presentation/interview. Documentation and display submitted Pre-Conference.
ELIGIBILITY:	2 teams per chapter. No semifinalist round.
TIME LIMITS:	No semifinalist interview/presentation.
LEAP:	No change. LEAP Response submitted Pre-Conference along with documentation.
ATTIRE:	See Pages 5-6 of this guide for required dress code.
PROCEDURE:	Pre-conference: No change
	Preliminary Round: 1. Entries are submitted Pre-Conference. 4. No semifinalists. Winners announced at Awards Ceremony.
	Delete Semifinal Round. The LEAP Response will be judged with documentation and display. No semifinalist presentation/interview. Top three winners will be announced at Awards Ceremony.
REGULATIONS:	Preliminary Round: No change
	Delete Semifinal Round. No presentation/interview. LEAP Response submitted with documentation and display Pre-Conference.
	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.
EVALUATION:	Delete 3. No semifinalist presentation/interview.
	Evaluation is based on 99 points:

CAD Foundations

Pre-Conference Event
2018 Design Problem will be posted on the NJ TSA website on January 15, 2018

OVERVIEW:	No change
	This design problem will be posted on the NJ TSA website on January 15, 2018.
ELIGIBILITY:	2 individuals per shapter
ELIGIBILITY:	2 individuals per chapter
TIME LIMITS:	Delete 1-3. Entries must be completed during the school year and are submitted Pre-Conference.
	There is no on-site component.
	Design problem will be posted on the NJ TSA website on January 15, 2018.
LEAP:	No change. LEAP Response submitted Pre-Conference.
LEAF.	No change. LEAF Response submitted Fre-Contenence.
ATTIRE:	See Pages 5-6 of this guide for required dress code.
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PROCEDURE:	Preliminary Round: Delete 1-8. Entries are submitted Pre-Conference. No on-site component. No semifinalists.
	Delete Semifinal Round. The LEAP Response is submitted with the entry Pre-Conference. No semifinalists. Top three winners will be announced at Awards Ceremony.
REGULATIONS:	Preliminary Round: Delete A-D. Delete F-G.
	Designs submitted on a maximum paper size of 24" x 36" or smaller sheets mounted on a 24" x 36" sheet with no overlapping papers.
	Delete Semifinal Round. LEAP Response submitted with entry Pre-Conference.
	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 "on-site problem." Entries are submitted Pre-Conference.
	Evaluation is based on 110 points: • Layout (70) • Software Utilization (30) • LEAP Response (10)

Career Prep

Pre-Conference Event
In 2018, students select a career from one (1) of the following career clusters:

- -Agriculture, Food & Natural Resources
- -Manufacturing
- -Finance
- -Government & Public Administration

OVERVIEW:	No semifinalists. No interview. Letter, resume and LEAP Response
	submitted Pre-Conference.
ELIGIBILITY:	2 individuals per chapter
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TIME LIMITS:	No semifinalists. No interview.
LEAP:	No change. LEAP Response submitted Pre-Conference.
ATTIRE:	See Pages 5-6 of this guide for required dress code.
PROCEDURE:	Preliminary Round: 4-5. Letter, resume and LEAP Response are submitted Pre-Conference.
	6-7. No semifinalists. Top three winners announced at Awards Ceremony.
	Delete Semifinal Round. No semifinalists. The LEAP Response is submitted Pre-Conference and judged with the letter and resume.
	Top three winners announced at Awards Ceremony.
REGULATIONS:	Preliminary Round: E. Letter, resume and LEAP Response are submitted Pre-Conference. Delete E.
	Please be sure that submissions have fictitious home contact information, social security number, and telephone number when completing application. Correct participant names must be used.
	Delete Semifinal Round. No semifinalists. The LEAP Response is submitted Pre-Conference and judged with the letter and resume.
	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:	3. No interview. No semifinalists. All participants submit a LEAP
	Response to be evaluated.
	Evaluation is based on 77 points:
	Letter of Introduction (40)
	Event Specific Resume (30)
	LEAP Response (7)

Challenging Technology Issues On-Site Event 2018 Topics:

- -Government Leaders and Social Media
- -1-to-1 Technology in School
- -FAA Interference with Drones
- -Impact of "self-driven" vehicles on society

OVERVIEW:	No change
ELIGIBILITY:	2 teams of 2 members per chapter
TIME LIMITS:	No change
LEAP:	No change. LEAP Response submitted at check-in.
LEAF.	No change. LEAF Response submitted at check-in.
ATTIRE:	See Pages 5-6 of this guide for required dress code.
PROCEDURE:	Preliminary Round: Delete 5. No semifinalists.
	Delete Semifinal Round. No semifinalists. LEAP Response is judged for all teams. Top three winners announced at Awards Ceremony.
REGULATONS:	No semifinalists. LEAP Response evaluated for all teams.
EVALUATION:	No semifinalists. All participants submit a LEAP Response to be evaluated. Evaluation is based on 165 points:
	 Evaluation is based on 165 points: Pro Side (70) Con Side (70) Participation (10) LEAP Response (15)

Chapter Team On-Site Event

OVERVIEW:	No semifinals. All teams participate in both the written exam and the oral presentation.
ELIGIBILITY:	2 teams of 6 members per chapter. C. No semifinalists. All teams take the written test and participate in the oral presentation.
TIME LIMITS:	B. No semifinalists. All teams make oral presentation. Time-related penalties apply.
LEAP:	No change. LEAP Response submitted at check-in.
ATTIRE:	Participants may wear Official TSA Attire OR Business-Like Attire , as described on Page 6-7 of this guide.
PROCEDURE:	Preliminary Round: 3. No semifinalists. All teams will make the oral presentation. Semifinal Round: 1-2. No semifinalists. All teams make oral presentation. 3. The LEAP Response is judged for all teams. No semifinalists. 4. Top three winners announced at Awards Ceremony.
REGULATIONS:	Preliminary Round: A.1. No semifinalists. All teams participate in oral presentation. Semifinal Round: E-F. No semifinals. All teams participate in oral presentation.
EVALUATION:	 1.b. No semifinalists. All teams make oral presentation. Final score based on written test and oral presentation. 2. All teams submit a LEAP Response to be evaluated. No semifinalists. Evaluation is based on 240 points: Written test (10) Business Meeting Demonstration (190) + LEAP Response (20) Possible Bonus (20)

Children's Stories

Pre-Conference Event
2018 Theme: STEM Interactive

Participants are to design an interactive book for elementary aged students in grades K-3 on a topic of their choosing in Science, Technology, Engineering or Mathematics (STEM).

OVERVIEW:	No change
ELIGIBILITY:	2 teams per chapter. A team of 1 individual is permitted.
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TIME LIMITS:	No Semifinal Round. No on-site component.
	Portfolio and storybook submitted Pre-Conference.
LEAP:	No change. LEAP Response submitted Pre-Conference.
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ATTIRE:	See Pages 5-6 of this guide for required dress code.
PROCEDURE:	Pre-conference:
T ROCEDORE.	No change
	Preliminary Round:
	2. Storybook, portfolio and LEAP Response submitted Pre-Conference. Delete 4. No semifinalists.
	Delete 4. No seriminansis.
	Delete Semifinal Round.
	No on-site component.
	LEAP Response is evaluated for all teams. Top three winners announced at Awards Ceremony.
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REGULATIONS:	
	No change
	Delete Semifinal Round.
	No on-site component.
	LEAP Response is evaluated for all teams.
	Top three winners announced at 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 all parts of student
	projects.
EVALUATION:	No Semifinal Round. LEAP Response is evaluated for all teams.
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	Evaluation is based on 198 points:
	Documentation (50) Standard (120)
	Storybook (130)LEAP Response (18)
	LEM Response (10)

Coding On-Site Event

OVERVIEW:	No semifinalists. All teams participate in written test and on-site programming challenge.
	programming chancings.
ELIGIBILITY:	2 teams of two members per chapter.
TIME LIMITS:	Participants have 45 minutes to complete written test. No semifinal round. No semifinalists. All participants have two (2) hours to complete on-site challenge.
LEAP:	No change. LEAP Response submitted at check-in.
ATTIRE:	See Pages 5-6 of this guide for required dress code.
PROCEDURE:	Preliminary Round: Delete 3-4. No semifinalists. All teams participate in written test and on-site challenge.
	Semifinal Round. 1. No semifinalists. All teams participate in written test and on-site challenge.
	4. Teams have two (2) hours to design and present their solution.5. LEAP Response will be judged for all teams.6. Top three winners will be announced at Awards Ceremony.
REGULATIONS:	Preliminary Round: No change
	Semifinal Round: No semifinalists. All teams participate in written test and on-site challenge. LEAP Response is evaluated for all teams.
EVALUATION:	1-2. No semifinalists. All teams participate in written test and on-site challenge. LEAP Response evaluated for all teams.
	 Evaluation is based on 165 points: Written test (50) On-Site Problem- Subjective (20) On-Site Problem- Objective (80) LEAP Response (15)

Community Service Video Pre-Conference Event

No change.
1 team per chapter. Entries may be submitted by an individual or group
No change.
No change. LEAP Response submitted Pre-Conference.
See Pages 5-6 of this guide for required dress code.
Preliminary Round:
Video and LEAP Response submitted Pre-Conference.
3. No semifinalists.
Delete Semifinal Round.
LEAP Response is judged for all teams.
Top three winners announced at Awards Ceremony.
Preliminary Round:
No change
No change
Delete Semifinal Round.
LEAP Response is judged for all teams.
2. No semifinalists. LEAP Response is evaluated for all teams.
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Evaluation is based on 165 points:
Video Production (70)
Video Effectiveness (80)
LEAP Response (15)

Construction Challenge On-Site Event

OVERVIEW:	No semifinalists. All teams participate in presentation/interview.
ELIGIBILITY:	2 teams per chapter.
	No semifinalists. All teams participate in presentation/interview.
	2-4 representatives per team for the presentation/interview.
TIME LIMITS:	2. No Semifinal Round/semifinalists. All teams participate in
	presentation/interview.
LEAP:	No change. LEAP Response submitted at check-in.
ATTIRE:	See Pages 5-6 of this guide for required dress code.
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PROCEDURE:	Preliminary Round:
	4. No semifinalists. All teams participate in presentation/interview.
	Semifinal Round:
	1. No semifinalists. All teams participate in presentation/interview.
	4. LEAP Response is judged for all teams. No semifinalists.
	5. Top three winners announced at Awards Ceremony.
	·
REGULATIONS:	Preliminary Round:
	No change
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	Semifinal Round:
	A. No semifinalists. All teams participate in presentation/interview.
	B. LEAP Response is judged for all teams. No semifinalists.
	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.
EVALUATION:	2. No semifinalists. All teams participate in presentation/interview.
	LEAP Response evaluated for all teams.
	Evaluation is based on 132 points:
	Display (40)
	Portfolio (30)
	 Presentation Interview (50) + LEAP Response (12)

Digital Photography Pre-Conference Event 2018 Theme: Heroes

OVERVIEW:	No semifinalists. No on-site task. Winners announced at award ceremony.
ELIGIBILITY:	2 individuals per chapter
	'
TIME LIMITS:	Delete Semifinal Round. No on-site task. No semifinalists.
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LEAP:	No change. LEAP Response submitted Pre-Conference.
ATTIRE:	See Pages 5-6 of this guide for required dress code.
PROCEDURE:	Preliminary Round: 1. Participants submit their digital album and LEAP Response Pre-Conference. 4. No semifinalists.
	Delete Semifinal Round No semifinalists. No on-site task. LEAP Response is judged for all teams. Top three winners announced at award ceremony.
REGULATIONS:	Preliminary Round: No change
	Delete Semifinal Round No semifinalists. No on-site task. LEAP Response is judged for all teams. Top three winners announced at award 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.
EVALUATION:	Data Construit Development August 15455
EVALUATION:	Delete 2. No Semifinal Round. No on-site task. LEAP Response evaluated for all teams.
	Evaluation is based on 110 points:

Dragster Pre-Conference Event

Throwback Design Challenge: For 2018 we're "flashing back in history" to the late 1970s when TSA was AIASA and the event was called LSRAV (Land Speed Record Assault Vehicle). At that point of time, there were no "Shell bodied Cars". For 2018 all four wheels must be completely exposed. No part of the body may cover any part of front or back wheels, while meeting the specifications below. Also, the rear wheels must meet these specifications for 2018 -

Rear wheels diameter 30mm 40mm Rear wheels width (at single surface contact point) 12mm 18mm

OVEDVIEW	Missiles and
OVERVIEW:	No change
ELIGIBILITY :	2 individuals per chapter. 1 entry per individual
TIME LIMITS:	Dragster, drawing and LEAP Response submitted Pre-Conference. No interview. Cars that do not meet specifications will NOT be raced
LEAP:	No change. LEAP Response submitted Pre-Conference.
ATTIRE:	See Pages 5-6 of this guide for required dress code.
ATTINE.	occ r ages 5 6 or this galactor required areas code.
PROCEDURE:	Preliminary Round: 1. Dragster, drawing and LEAP Response submitted Pre-Conference.
	Semifinal Round:
	1. No interview.
	6. Top three winners will be announced at Awards Ceremony.
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REGULATIONS:	No 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 3. No Interview.
	 Evaluation is based on 123 points: Dragster Construction (50) LEAP Response (13) Race (60) The top 16 dragsters meeting specifications will be raced in the double elimination bracket at the conference. Cars not meeting specs WILL BE DISQUALIFIED from competition.
	Evaluation is based on 123 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.

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.

Electrical Applications On-Site Event

OVERVIEW:	Written test only. No semifinalists. No on-site problem or interview. Winners announced at award ceremony.
ELIGIBILITY:	2 individuals per chapter
TIME LIMITS:	Delete Semifinal Found. No on-site problem or interview.
LEAP:	No change. LEAP Response submitted at check-in.
ATTIRE:	See Pages 5-6 of this guide for required dress code.
PROCEDURE:	Preliminary Round: Delete 3-4. No semifinalists. Top three winners announced at Awards Ceremony.
	Delete Semifinal Round. No on-site problem or interview. Written test only. LEAP Response judged for all teams. Top three winners announced at Awards Ceremony.
REGULATIONS:	
REGULATIONS.	A. Answer sheets, paper and pencils provided.
	Delete Semifinal Round. No on-site problem or interview. Written test only. LEAP Response judged for all teams.
	Top three winners announced at Awards Ceremony.
EVALUATION:	Delete 2. No Semifinal Round No on-site problem or interview. Written test only. LEAP Response judged for all teams.
	Evaluation is based on 55 points: • Written test (50 points) • LEAP Response (5)

Essays on Technology

On-Site Event

2018 Topic: RFID (Radio Frequency IDentification) technology uses radio-frequency electromagnetic fields to automatically identify and track tags attached to objects, animals, and humans. Students must research each of the following subtopics and be prepared to write an essay on one subtopic that will be designated on site at the conference:

- * Uses of RFID in business and industry
- * Uses of RFID in domestic animals, livestock, and wildlife
- * Pros and Cons of RFID implantation in humans

OVERVIEW:	No change
	- re- on-can-igo
ELIGIBILITY:	2 individuals per chapter
	•
TIME LIMITS:	No semifinalists. All participants write outline (1 hour) and essay (1
	hour).
LEAP:	No change. LEAP Response submitted at check-in.
ATTIRE:	See Pages 5-6 of this guide for required dress code.
PROCEDURE:	Preliminary Round:
	7. No semifinalists.
	Semifinalist Round:
	No semifinalists. All participants write essay. Top three winners
	announced at Awards Ceremony.
	announced at / that ac constitution;
REGULATIONS:	Preliminary Round:
	D. Paper & writing utensils will be provided.
	O. No semifinalists. All participants write essay on a subtopic.
	Semifinalist Round:
	No semifinalists. All participants write essay.
EVALUATION:	O. N. O. William Allers Colored Constitution (Press, 1975)
EVALUATION:	2. No Semifinalists. All participants write outline and essay. LEAP
	Responses evaluated for all participants.
	Evaluation is based on 198 points:
	Detailed Outline (80)
	Essay (100) + LEAP Response (18)
	= L33ay (100) + LLAI 11e3poilse (10)

Flight On-Site Event

OVERVIEW:	Students bring completed glider, portfolio and LEAP Response to event.
ELIGIBILITY:	2 individuals per chapter
SAFETY:	Safety glasses are not required for this event.
TIME LIMITS:	Delete 1. Students bring completed glider to event
	See
LEAP:	No change. LEAP Response submitted at check-in.
	The energe. EE/ II Treepenee easimited at eneet in
ATTIRE:	See Pages 5-6 of this guide for required dress code.
ATTINE.	See Fages 3-0 of this guide for required dress code.
DDOCEDUDE.	Dualizaia am. Davia di
PROCEDURE:	Preliminary Round:
	1. Participants report to event area with their glider, portfolio and LEAP
	Response.
	Delete 2. Glider is constructed off-site.
	7. No semifinalists.
	Delete Semifinal Round.
	No semifinalists.
	LEAP Response is judged for all participants.
	Top three winners announced at Awards Ceremony.
REGULATIONS:	Preliminary Round:
	Delete A. Safety glasses are not required for this event.
	B.2. Glider is constructed off-site.
	D-G. Plane built off-site using specified materials. Catapult provided
	by NJ TSA.
	by 140 1 67 t.
	Delete Semifinal Round.
	No semifinalists. LEAP Response is judged for all participants. Top
	three winners announced at Awards Ceremony.
	tinee williers almounced at 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 all parts of student
	projects.
EVALUATION	O No conflicte LEAD December 1 to 14 to 15
EVALUATION:	3. No semifinalists. LEAP Response is evaluated for all participants.
	End office to Local Local Control
	Evaluation is based on 66 points:
	Documentation (60)
	Flight Score
	LEAP Response (6)
	• LEAP Kesponse (b)

Forensic Technology On-Site Event

OVERVIEW:	No semifinalists. All teams take written test and analyze mock crime
	scene. Winners announced at award ceremony.
ELIGIBILITY:	1 team of 2 members per chapter.
	p or original to the control of the
TIME LIMITS:	No semifinalists. All teams analyze mock crime scene.
LEAD	New Joseph J. FAR. Review of the last of t
LEAP:	No change. LEAP Response submitted at check-in.
ATTIRE:	See Pages 5-6 of this guide for required dress code.
PROCEDURE:	Drading in any Day and
PROCEDURE:	Preliminary Round: 3-4. No semifinalists. All teams participate in on-site problem.
	o in the definitional of the problem.
	Semifinal Round:
	1. No semifinalists. All teams participate in on-site problem.
	3. LEAP Response judged for all teams.4. Top three winners announced at Awards Ceremony.
	Top times willing a discount at the discount of the times and the times are the times at the times are the times a
REGULATIONS:	
	B. No semifinalists. All teams participate in on-site problem.
	Semifinal Round:
	No semifinalists.
	All teams participate in on-site problem.
	LEAP Response judged for all teams.
EVALUATION:	1.b. No semifinalists. All teams participate in on-site problem.
	2. No semifinalists. LEAP Response evaluated for all teams.
	Evaluation is based on 122 points:
	Evaluation is based on 132 points: • Written Test (50)
	Analysis of Crime Scene (70)
	LEAP Response (12)

Inventions and Innovations

On-Site Event

OVERVIEW:	No semifinalists. All teams participate in oral presentation and interview.
ELIGIBILITY:	Preliminary round: 1 team of 3-6 members per chapter. 1 entry per team.
	Semifinal round: No semifinalists. All teams participate in oral presentation and interview.
TIME LIMITS:	No semifinalists. All teams participate in oral presentation and question/answer session.
LEAP:	No change. LEAP Response submitted at check-in.
ATTIRE:	See Pages 5-6 of this guide for required dress code.
PROCEDURE:	Pre-conference: No change
	Preliminary Round: 5. No semifinalists. All teams will make an oral presentation.
	Semifinal Round: 1. No semifinalists. All teams sign up for an oral presentation. 3. LEAP Response will be judged for all teams. 4. Top three winners will be announced at Awards Ceremony.
REGULATIONS:	Preliminary Round: No change
	Semifinal Round: A. No semifinalists. All teams make oral presentation.
	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.
EVALUATION:	No semifinalists. All teams make oral presentation.
	Evaluation is based on 165 points: • Static Entry (70) • Presentation/Interview (80) + LEAP Response (15)

Junior Solar Sprint On-Site Event

OVERVIEW:	No change
ELIGIBILITY :	1 team of 2-4 members per chapter. 1 entry per team.
TIME LIMITS:	No change
LEAP:	No change. LEAP Response submitted at check-in.
ATTIRE:	See Pages 5-6 of this guide for required dress code.
PROCEDURE:	Preliminary Round:
	No change
	Semifinal Round:
	2. LEAP Response judged for all teams.
	3. Top three winners will be announced at Awards Ceremony.
REGULATIONS:	Preliminary Round:
	No change
	0 " 10 1
	Semifinal Round:
	E. Top three winners will be announced at Awards Ceremony.
	No cobool or individual names labeled on projector only IDWs are to
	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.
EVALUATION:	In the event of inclement weather, evaluation will be based on 105 points
	for the model, documentation and LEAP Response (no race).
	Evaluation is based on 165 points:
	Display and Model (40)
	Documentation (50)
	• Race (60)
	LEAP Response (15)
	- LE/11 (100polioo (10)

Leadership Strategies On-Site Event

OVERVIEW:	No change
ELIGIBILITY:	2 teams of 3 members per chapter
TIME LIMITS:	No change
LEAP:	No change. LEAP Response submitted at check-in.
ATTIRE:	See Pages 5-6 of this guide for required dress code.
_	
PROCEDURE:	Preliminary Round:
	Delete 8. No semifinalists. All teams make a presentation.
	Delete Occiffical December
	Delete Semifinal Round.
	No semifinalists. All teams make presentation. LEAP Response judged
	for all teams. Top three winners announced at Awards Ceremony.
REGULATIONS:	No semifinals. All teams make a presentation.
REGULATIONS.	NO Seminiais. An teams make a presentation.
EVALUATION:	No change
LVALUATION.	140 originge
	Evaluation is based on 88 points:
	Presentation (80)
	LEAP Response (8)
	▼ LLAF Nespulise (0)

Mass Production Pre-Conference Event 2018 Theme: Geometric Puzzles

OVERVIEW:	No change
	_ Tro sharige
ELIGIBILITY:	2 teams of 2-6 members per chapter. No semifinalists. No
	presentation/interview. Entries are submitted Pre-Conference.
TIME LIMITS:	No comification. No procentation/interview. Entring submitted Dro
	No semifinalists. No presentation/interview. Entries submitted Pre- Conference.
LEAP:	No change. LEAP Response submitted Pre-Conference.
ATTIRE:	Con Doggo F C of this guide for required drags and
ATTIKE:	See Pages 5-6 of this guide for required dress code.
PROCEDURE:	Pre-conference: No change
	Preliminary Round: 1. Portfolio, product and LEAP Response are submitted Pre-Conference. 4. No semifinalists. No presentation/interview. Winners are announced at award ceremony.
	Delete Semifinal Round. No semifinalists. No presentation/interview. LEAP Response will be judged for all teams. Top three winners will be announced at Awards Ceremony.
DECLU ATIONS	
REGULATIONS:	Preliminary Round: No change Delete Semifinal Round. No semifinalists. No presentation/interview. LEAP Response will be judged for all teams.
	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 2. No Semifinal Round. No presentation/interview. LEAP Responses will be evaluated for all teams.
	Evaluation is based on 121 points: • Static Entry (110) • LEAP Response (11)

Mechanical Engineering On-Site Event

OVERVIEW:	No semifinalists. All teams participate in presentation/interview.
ELIGIBILITY:	2 teams of 3-6 members per chapter.
TIME LIMITS:	No semifinalists. All teams participate in presentation/interview.
LEAP:	No change. LEAP Response submitted at check-in.
ATTIRE:	See Pages 5-6 of this guide for required dress code.
PROCEDURE:	Pre-conference: No change Preliminary Round: 4. No semifinalists. All teams do presentation/interview. Semifinal Round: 1. No semifinalists. All teams sign up for presentation/interview time. 2. LEAP Response will be judged for all teams. 4. Top three winners announced at Awards Ceremony.
REGULATIONS:	Preliminary Round: No change Semifinal Round: No change 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:	2. No semifinalists. LEAP Response will be evaluated for all teams. Evaluation is based on 165 points: • Static Entry (70) • Presentation/Interview (80) + LEAP Response (15)

Medical Technology Pre-Conference Event

OVERVIEW:	No semifinalists. No presentation. Entries are submitted Pre- Conference.
ELIGIBILITY:	2 teams of 2 or more members per chapter. No semifinalists. No presentation. Entries submitted Pre-Conference.
TIME LIMITS:	No semifinalists. No presentation. Entries submitted Pre-Conference.
LEAP:	No change. LEAP Response submitted Pre-Conference.
ATTIRE:	See Pages 5-6 of this guide for required dress code.
PROCEDURE:	Preliminary Round: 3-4. Entries submitted Pre-Conference. 6. No semifinalists. Delete Semifinal Round. No semifinalists. No presentation. LEAP Response will be judged for all teams. Top three winners announced at Awards Ceremony.
REGULATIONS:	Preliminary Round: No change Delete Semifinal Round. No semifinalists. No presentation. LEAP Response will be judged for all teams. 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:	2. No semifinalists. No presentation. LEAP Response will be evaluated for all teams. Evaluations will be based on 165 points: Documentation (70) Display (40) Model/Prototype (40) LEAP Response (15)

Microcontroller Design On-Site Event 2018 Theme: Wearable Technology

OVERVIEW:	No change
ELIGIBILITY:	2 teams of 3-5 members per chapter. Up to 3 team members may participate in the presentation.
TIME LIMITS:	No change
THE LIMITO.	140 ondingo
LEAP:	No change. LEAP Response submitted at check-in.
ATTIRE:	See Pages 5-6 of this guide for required dress code.
PROCEDURE:	Preliminary Round: 8. No semifinalists.
	Delete Semifinal Round. No semifinalists. LEAP Response will be judged for all teams. Top three winners announced at Awards Ceremony.
REGULATIONS:	Preliminary Round: No change
	Delete Semifinal Round. No semifinalists. LEAP Response will be judged for all teams. Top three winners announced at 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 all parts of student projects.
EVALUATION:	No change
	Evaluation is based on 198 points: • Documentation (20) • Product (100) • Presentation (60) • LEAP Response (18)

Off the Grid

Static Event

2018 Theme: Design a home for a family of four (4) and one (1) pet specific to the country that you choose.

OVERVIEW:	No semifinalists. No presentation/interview. Teams submit entries on conference day for judging (Static Event).
ELIGIBILITY:	2 teams per chapter. Delete Semifinal Round. No presentation/interview. Entries submitted on conference day.
TIME LIMITS:	No semifinalists. No presentation/interview. Entries submitted
LEAP:	No change. LEAP Response submitted at check-in.
ATTIRE:	See Pages 5-6 of this guide for required dress code.
PROCEDURE:	Preliminary Round: 6. No semifinalists. Delete Semifinal Round. No semifinalists. No presentation/interview. LEAP Response will be judged for all teams. Top three winners announced at Awards Ceremony.
REGULATIONS:	Preliminary Round: No change Delete Semifinal Round. No semifinalists. No presentation/interview. LEAP Response will be judged for all teams. 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:	2. Delete Semifinal Round. No semifinalists. No presentation/interview. LEAP Response will be evaluated for all teams. Evaluations will be based on 187 points: Documentation (80) Design Challenge (30) Display and Model (60) LEAP Response (17)

Prepared Speech
On-Site Event
2018 Theme: A Celebration of Success

OVERVIEW:	No change
ELIGIBILITY:	2 individuals per chapter
TIME LIMITS:	No change
LEAP:	No change. LEAP Response submitted at check-in.
4 T TIDE	
ATTIRE:	See Pages 5-6 of this guide for required dress code.
DD OOF DUDE:	Due line in a ma Day and to
PROCEDURE:	Preliminary Round:
	4. No semifinalists. All students make one speech.
	Delete Semifinal Round.
	No semifinalists.
	All students make speech.
	LEAP Response will be judged for all teams.
	Top three winners announced at award ceremony.
REGULATIONS:	Preliminary Round:
	No change
	Top three williers afficultied at award ceremony.
FVAI UATION:	No change
	The original
	Evaluation is based on 99 points:
	· ·
	, ,
EVALUATION:	Delete Semifinal Round. No semifinalists. All students make one speech. LEAP Response will be judged for all teams. Top three winners announced at award ceremony. No change Evaluation is based on 99 points: • Content (30) • Stage Presence (30) • Organization (30) • LEAP Response (9)

Problem Solving On-Site Event

OVERVIEW:	No change
ELIGIBILITY:	1 team of 2 members per chapter
TIME LIMITS:	Change time from 2 to 1.5 hours.
LEAP:	LEAP Response is NOT required for this event.
ATTIRE:	See Pages 5-6 of this guide for required dress code.
PROCEDURE:	Preliminary Round:
	LEAP Response is NOT required for this event.
	2. All equipment/materials provided by NJ TSA
	3. Teams are allowed 1.5 hrs. to design and construct solution.
	5. No semifinalists.
	Doloto Comifinal Bound
	Delete Semifinal Round. LEAP Response is NOT required for this event.
	Top three winners announced at Awards Ceremony.
	Top thice williers afficultied at Awards Ceremony.
REGULATIONS:	Preliminary Round:
	Delete D-G. All equipment/materials provided by NJ TSA
	2 3.3.5 2 3.7 3 quipmonumatemate provided by 1.6 1.9/1
	Delete Semifinal Round.
	LEAP Response is NOT required for this event.
EVALUATION:	Evaluation will be based on a scoring guide provided at the event.
	No LEAP Response is required.

Promotional Marketing

Pre-Conference Event
2018 Problem: Design an 11" x 17" poster advertising a chapter fundraiser to attend the 2018 National TSA Leadership Conference. Design a 1 color 6" x 6" logo for a royal blue drawstring bag for your chapter. Create a two (2) minute advertisement for the 1st TSA meeting of the school year to be played on the TVs in your school's lobby.

OVERVIEW:	No semifinalists. No on-site problem. Entries submitted Pre-Conference.
ELIGIBILITY:	2 individuals per chapter. 1 entry per individual.
TIME LIMITS:	Delete Semifinal Round. No semifinalists. No on-site problem.
LEAP:	No change. LEAP Response submitted Pre-Conference.
ATTIRE:	See Pages 5-6 of this guide for required dress code.
PROCEDURE:	Preliminary Round: 2. Toolkit and LEAP Response are submitted Pre-Conference 5. No semifinalists.
	Delete Semifinal Round. No semifinalists. No on-site problem. LEAP Response will be judged for all participants. Top three winners announced at Awards Ceremony.
REGULATIONS:	Preliminary Round: No change Delete Semifinal Round. No semifinalists. No on-site problem. LEAP Response will be judged for all participants. 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.
EVALUATION:	No change
	Evaluation is based on 165 points: • Print Design (50) • Wearable Marketing (50) • Digital Signage (50) • LEAP Response (15)

STEM Animation

Pre-Conference Event

2018 Theme: Environmental engineering is an engineering branch that applies scientific and engineering principles while simultaneously using technologies and mathematics to protect humans from the potential harmful effects of adverse environmental factors.

Create a STEM animation that introduces an environmental factor and then shows how environmental engineering could address any potential negative effects.

	eering could address any potential negative effects.
OVERVIEW:	No semifinalists. No presentation. Entries submitted Pre-Conference.
ELICIDII ITV.	O tooms not shorter. A costo participa
ELIGIBILITY:	2 teams per chapter. 1 entry per team.
TIME LIMITS:	Preliminary Round:
THE LIMITS.	No change
	in the Greening of
	Delete Semifinal Round.
	No semifinalists. No presentation. Entries submitted Pre-Conference.
LEAP:	No change. LEAP Response submitted Pre-Conference.
ATTIDE.	Con Domon F. C. of this guide for required drags and
ATTIRE:	See Pages 5-6 of this guide for required dress code.
PROCEDURE:	Preliminary Round:
I KOOLDOKL.	1. Entry and LEAP Response submitted Pre-Conference.
	4. No semifinalists.
	Delete Semifinal Round.
	No semifinalists.
	No presentation.
	LEAP Response will be judged for all teams.
	Top three winners announced at Awards Ceremony.
REGULATIONS:	Preliminary Round:
112002/11101101	No change
	- Company of the comp
	Delete Semifinal Round.
	No semifinalists.
	No presentation.
	LEAP Response will be judged for all teams.
	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 Semifinal Round. LEAP Response will be judged for all teams.
	Evaluation is board on 00 mainter
	Evaluation is based on 88 points:
	Portfolio (30) Animation (50)
	Animation (50)LEAP Response (8)
	LLAF Nesponse (o)

Structural Engineering On-Site Event

2018 Problem Statement: http://www.tsaweb.org/Themes-and-Problems 2018 Team Verification form: http://www.tsaweb.org/Themes-and-Problems

OVERVIEW:	All participants bring the following on conference day to be evaluated:
	Pre-Built Structure
	Three-View Drawing
	Team Verification Form
	Analysis and Assessment Form
	LEAP Response
	· ·
	There is no on-site semifinalist construction problem. All groups are present for testing of their Pre-Built Structures.
	No semifinalists/finalists. 1 st , 2 nd and 3 rd place winners are announced at Awards Ceremony.
ELIGIBILITY:	1 team of 2 members per chapter, one entry per team
SAFETY EYEWEAR:	Safety eyewear is not needed. There is no on-site construction problem.
TIME LIMITS:	Delete B-C. No semifinalists. No on-site construction problem.
THIVIE LIMITS:	Delete B-C. No seminimalists. No on-site construction problem.
LEAP:	LEAP Response submitted at check-in.
LEAP:	LEAP Response submitted at check-in.
ATTIRE:	Soo Pages 5.6 of this guide for required dress code
ATTIKE.	See Pages 5-6 of this guide for required dress code.
PROCEDURES/	PRE-BUILT STRUCTURE REGULATIONS
REGULATIONS:	No change
REGULATIONS.	ino change
	PROCEDURE FOR ON-SITE DESTRUCTIVE TESTING OF PRE-BUILT
	STRUCTURES
	Delete D-E. No semifinalists. No on-site construction problem.
	2 3.3.5 2 2. 1.6 331a.a.a.a.a. 1.6 311 alta adillati problem.
	REGULATIONS AND PROCEDURE FOR SEMIFINALIST ON-SITE
	CONSTRUCTION AND DESTRUCTIVE TESTING
	Delete A-R. No on-site construction problem.
	LEAP Response will be judged for all teams.
	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.
	p. 0,0000
EVALUATION:	Based on the compliance and design efficiency of pre-built structure only.
LVALUATION.	No on-site construction problem. No semifinalists. LEAP Response will be evaluated for all teams.

System Control Technology

Static Event

2018 Design Problem will be posted on the NJ TSA website on January 15, 2018

OVERVIEW:	Model is constructed off-site during the school year and submitted on conference day. Design problem will be posted on the NJ TSA website on January 15, 2018.
ELICIDII ITV.	O tooms of 2 members not shorter
ELIGIBILITY:	2 teams of 3 members per chapter
LEAP:	No change. LEAP Response submitted at check-in.
LLAI .	140 ondings. EE/ti Teoponice submitted at oneok in.
ATTIRE:	See Pages 5-6 of this guide for required dress code.
	3 · · · · · · · · · · · · · · · · · · ·
PROCEDURE:	Preliminary Round: Delete 1. Delete 39. Model is constructed off-site. Students set up their device on conference day and leave instructions for evaluators to operate the device. Inventor's log is completed off-site. LEAP Response submitted at check-in.
	Delete Semifinal Round. LEAP Response will be judged for all teams. Top three winners will be announced at Awards Ceremony.
REGULATIONS:	Preliminary Round: A-I. Design problem will be posted on the NJ TSA website on January 15, 2018. Model is constructed off-site. No on-site portion. Delete Semifinal Round. LEAP Response will be judged for all teams. Top three winners will be announced at 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.
EVALUATION:	No change
	Evaluation is based on 110 points: Inventor's Log (20) Solution to Problem (60) Programming Structure (20) LEAP Response (10)

Tech Bowl On-Site Event

OVERVIEW:	All participants will complete a written exam and then participate in the oral event.
ELIGIBILITY:	1 team of 3 members per chapter participate in written and oral part of event.
TIME LIMITS:	Preliminary Round: 2. Forty-five (45) minutes is allowed for this test. Delete Semifinal Round. All teams will participate in the oral competition.
LEAP:	LEAP Response is NOT required for this event.
ATTIRE:	See Pages 5-6 of this guide for required dress code.
PROCEDURE:	Follow procedures listed below. Do not refer to the TSA Competitive Events Guide. 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. B. No audience members are permitted into the oral event area. C. When instructed to do so, two (2) teams will enter the event area and be seated according to instructions. D. When a team has been defeated in any round of the oral event, the team is out of the competition. E. Questions will be drawn, as needed, from a card file resource bank. 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. 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 tie, five (5) additional questions will be asked. This procedure will 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
 - 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.

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

- 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:

<u>Follow procedures listed below.</u> Do not refer to the *TSA Competitive* Events Guide.

- A. No transmitting or recording devices will be permitted in the event area. No prompting will be permitted.
- B. The team member who "buzzes in" will have five (5) seconds to answer the question, without discussion.
- C. The team that answers the bonus question will be allowed ten (10) seconds to discuss the extra question and give an answer.
- 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.
- 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.

EVALUATION:

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

Technical Design

Pre-Conference Event

2018 Design Problem will be posted on the NJ TSA website on March 1, 2018. Entries must be received in the NJ TSA Office (or postmarked) by 5pm on March 6, 2018.

OVERVIEW:	Problem is solved off-site. Design problem will be posted on the NJ
	TSA website on March 1, 2018. Entries must be received in the NJ
	TSA Office (or postmarked) by 5pm on March 6, 2018.
ELIGIBILITY:	2 teams of 2 members per chapter
	2 tourne of 2 members per oriente.
TIME LIMITS:	Participants will be allowed 2 (school) days to solve the engineering
	design problem.
	The design problem will be posted on the NJ TSA website on March 1,
	2018 at 5pm. Entries must be received in the NJ TSA Office (or postmarked) by 5pm on March 6, 2018.
	positiarked) by Spiri of March 6, 2016.
LEAP:	No change. LEAP Response submitted with entry Pre-Conference.
	ger reconstruction of the contraction of the co
ATTIRE:	See Pages 5-6 of this guide for required dress code.
PROCEDURE:	Preliminary Round:
	1. The design problem will be posted on the NJ TSA website on
	March 1, 2018 at 5pm. Portfolio and LEAP Response must be received in the NJ TSA Office (or postmarked) by 5pm on March 6, 2018.
	4. Delete Semifinal Round. No semifinalists.
	In Boloto Committa Modifia. The committations.
	Delete Semifinal Round.
	No Semifinalists.
	LEAP Response will be judged for all teams.
	Top three winners will be announced at Awards Ceremony.
REGULATIONS:	Preliminary Round:
REGULATIONS.	No change
	Delete Semifinal Round.
	No Semifinalists.
	LEAP Response will be judged for all teams.
	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:	No change
	Fuglishing is board on 440 points.
	Evaluation is based on 110 points:
	• Solution (100)
	LEAP Response (10)

Video Game Design Pre-Conference Event

OVERVIEW:	No semifinalists. No on-site interview. Game and all required documentation submitted Pre-Conference. URL for the video game should be emailed to tsachall@tcnj.edu . All required documentation must be submitted as a PDF attachment to the email.
ELIGIBILITY:	1 team of 2-6 members per chapter. No semifinalists. No interview. Entries submitted Pre-Conference.
TIME LIMITS:	 Change submission date from May 15 to March 14, 2018. Send URL to <u>tsachall@tcnj.edu</u>. Include ID# and "Video Game Design" in subject line. Email verification of each team's entry will be made by March 15, 2018.
	Delete 4. No semifinalists. No on-site interview.
	URL for the video game should be emailed to tsachall@tcnj.edu . All required documentation must be submitted as a PDF attachment to the email.
LEAD	No about 15AD Door and a submitted Dry Conference
LEAP:	No change. LEAP Response submitted Pre-Conference.
ATTIRE:	See Pages 5-6 of this guide for required dress code.
ATTINE.	Cee ages 5 6 6 fms gaide for required dress code.
PROCEDURE:	Preliminary Round: 1-2. Entries due on March 14, 2018. URL for the video game should be emailed to tsachall@tcnj.edu. All required documentation must be submitted as a PDF attachment to the email. 4. Entries are reviewed by evaluators prior to the NJ State Conference. Delete 5. No semifinalists. No interview. Winners announced at award ceremony. Delete Semifinal Round.
	No semifinalists. No interview LEAP Response will be judged for all teams. Top three winners announced at Awards Ceremony.
REGULATIONS:	Preliminary Round: H. Entries become the property of NJ TSA.

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	Delete Semifinal Round.
	No semifinalists.
	No interview
	LEAP Response will be judged for all teams.
	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
	Delete Semifinal Round.
	No semifinalist interview
	LEAP Response will be evaluated for all teams.
	Evaluation is based on 99 points:
	Documentation (30)
	Game Design (60)
	LEAP Response (9)

Website Design

Pre-Conference Event

2018 Design Brief: http://www.tsaweb.org/Themes-and-Problems

OVERVIEW:	No semifinalists. No interview. Entries submitted Pre-Conference.
ELIGIBILITY:	1 team of 3-6 members per chapter. 1 entry per chapter.
	No semifinalists. No interview. Entries are submitted Pre-Conference.
TIME LIMITS:	1-2. Change date from May 15 to March 14, 2018. URL must be emailed to tsachall@tcnj.edu. Include ID# and "Website Design" in subject line.
	4. Email verification of each team's entry will be made by March 15, 2018.
	5. All entries will be available to view at the State Conference.
	Delete 6. No semifinalists. No interview.
LEAP:	LEAP Response submitted Pre-Conference as an attachment to the
	email containing the chapters' entry (URL)
ATTIRE:	See Pages 5-6 of this guide for required dress code.
PROCEDURE:	Preliminary Round: 6. Entries are evaluated prior to the NJ State Conference. Delete 7. No semifinalists. No interview.
	Delete Semifinal Round. No semifinalists. No interview
	LEAP Response will be judged for all teams.
	Top three winners announced at Awards Ceremony.
REGULATIONS:	Pre-conference/Preliminary Round: No change
	Delete Semifinal Round. No semifinalists. No interview
	LEAP Response will be judged for all teams.
	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.

Preliminary Round:
No change
Delete Semifinal Round.
No semifinalist interview
LEAP Response will be evaluated for all teams.
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Evaluation based on 99 points:
Website development (90)
LEAP Response (9)