

Revised for Online Competitions

3/31/20

# 2020 NJ TSA MIDDLE SCHOOL SUPPLEMENT

Revised for Online Competitions

3/31/20

*Inspire a Shared Vision*

*Challenge the Process*



*Model the Way*

*Encourage the Heart*

*Enable Others to Act*

COVER ART BY:  
SVANA SHANKAR  
HOWELL MIDDLE SCHOOL NORTH  
1ST PLACE PROMOTIONAL MARKETING  
2019 NJ TSA MIDDLE SCHOOL CONFERENCE



## 2019-2020 New Jersey TSA Executive Committee

### **State Officers**

Regan Riehl	President	Colts Neck High School
Kate Donnelly	Vice President	Marine Academy of Science and Technology
Khushi Sabuwala	Secretary	High Technology High School
Ben Schornstein	Treasurer	Freehold Township High School
Catherine Barone	Reporter	Marine Academy of Science and Technology
Maryann Vazhapilly	Sergeant-at-Arms	Clearview Regional High School
Olivia Lieberman	Historian	Freehold Township High School
Ashni Kapadia	Parliamentarian	Manalapan High School

### **State Officer Advisors**

Ms. Melissa Parr	Clearview Regional High School
Ms. Angela Bavaro	Colts Neck High School
Mr. Thomas Jennings	Freehold Township High School
Ms. Megan Zummo	Freehold Township High School
Ms. Jennifer Garrity	High Technology High School
Mr. Shane Evans	Manalapan High School
Ms. Wendy Green	Marine Academy of Science & Technology

### **State Regional Coordinator**

Ms. Sherry Roses	Howell High School
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### **State Advisor and Corporate Member**

Mrs. Alison Goeke, Center for Excellence in STEM Education, Department of Technological Studies, School of Engineering, The College of New Jersey

### **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- Revised 3/31/20**

Due to school closures as a result of the Covid 19 outbreak, the spring 2020 NJ TSA Middle School State Conference has been canceled at The College of New Jersey. NJ TSA will continue, however, to offer several competitions, the entries for which, will be submitted online. Each student may participate in a total of three (3) competitions.

All students/teams wishing to participate in these online competitions may do so free of charge; **there is no registration fee to participate.** All students/teams must be registered in the NJ TSA State Conference Registration System to participate: ([http://www.registermychapter.com/tsa/nj-m/Main.asp](http://www.registtermychapter.com/tsa/nj-m/Main.asp)). They should use the Student/TEAM ID# they receive upon registration, to label all electronic entries. All entries are due via email by 5:00 PM on April 27, 2020.

The NJ Supplement has been revised to reflect these changes. Please DISCARD/DELETE any copies of the original NJ Supplement, as it is no longer valid. Please use only this updated version of the Supplement, in conjunction with the *TSA Middle School Competitive Events Guide (for the 2020 and 2021 National TSA Conferences)*.

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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.

### **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 being offered through NJ TSA 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.

### **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 in NJ TSA competitive events this spring.

Any questions may be directed to Ms. Alison Goeke, NJ TSA State Advisor at (609)771-3244 or [goeke2@tcnj.edu](mailto:goeke2@tcnj.edu), or Henry Harms, NJ TSA Competitive Event Coordinator, at [harms@tcnj.edu](mailto:harms@tcnj.edu).

## General Rules Governing Competitive Events

### I. MIDDLE SCHOOL EVENTS- **REVISED 3/31/20**

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

#### EVENTS WITH ONLINE SUBMISSION FOR SPRING 2020

##### Biotechnology

Teams of 1-6 members will conduct research on a topic, and create a documentation portfolio, and record a presentation (no display). Portfolio, and presentation are emailed to [tsachall@tcnj.edu](mailto:tsachall@tcnj.edu).

##### CAD Foundations

Individuals will use CAD to generate isometric and 3-view (orthographic) drawings from an image. The drawings are emailed to [tsachall@tcnj.edu](mailto:tsachall@tcnj.edu).

##### Children's Stories

Teams of 1-6 members create a documentation portfolio, and storybook. The portfolio, and photos of the storybook, are emailed to [tsachall@tcnj.edu](mailto:tsachall@tcnj.edu).

##### Digital Photography

Individuals produce a portfolio album and email it to [tsachall@tcnj.edu](mailto:tsachall@tcnj.edu).

##### Leadership Strategies

Teams of 1-3 members prepare and record a presentation on a selected challenge that officers of a TSA chapter might encounter. The presentation is emailed to [tsachall@tcnj.edu](mailto:tsachall@tcnj.edu).

##### Medical Technology

Teams of 1-6 members conduct research on a topic, and share their solution through a multimedia presentation, which is emailed to [tsachall@tcnj.edu](mailto:tsachall@tcnj.edu).

##### Off the Grid

Teams of 1-6 members conduct research and create a documentation portfolio and recorded presentation (no display/model), which is emailed to [tsachall@tcnj.edu](mailto:tsachall@tcnj.edu).

##### Promotional Marketing

Individuals create a marketing portfolio based on the current year's theme, and email it to [tsachall@tcnj.edu](mailto:tsachall@tcnj.edu).

##### STEM Animation

Teams of 1-6 members create a documentation portfolio and animation based on the current year's topic. The portfolio and animation is emailed to [tsachall@tcnj.edu](mailto:tsachall@tcnj.edu).

##### Website Design

Teams of 1-6 members design, build, and launch a website based on the current year's design brief. The URL is emailed to [tsachall@tcnj.edu](mailto:tsachall@tcnj.edu).

**Each student may participate in three (3) events total, from the above list.**

## II. PROJECT SUBMISSION

- A. All entries must be submitted electronically by 5:00 PM on April 27, 2020.
- B. Please see the specific submission requirements listed under each competition in this document.

## III. PARTICIPATION IN COMPETITIVE EVENTS

- A. TSA members may register and participate in **three (3) total events**.
- B. Students must be registered in the State Conference registration system in order to enter and become finalists/winners in a competition.
- C. **There is no registration fee to participate in the above listed competitive events.**
- D. **No school or individual names labeled on projects**, except for events which require school/student information. **Otherwise only ID#'s are to be used.** Upon registering students for the State Conference online, they are automatically assigned a State Conference ID#. This number needs to be on all parts of student projects (i.e. portfolios, copyright/release forms, video presentations, etc.). Team ID#s may be used for team events. A Team ID# is the first four numbers of students' individual ID#s (e.g. if a student ID# is 1234567, the Team ID# would be 1234. If there are multiple teams from one chapter for the same competition, include which team they are on (e.g. 1234-1, 1234-2, etc.).
- E. NJ TSA is not responsible for compatibility issues with electronic files. Judges will not be permitted to install programs to view files.
- F. 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.
- G. The maximum size of a team is 6 members, unless otherwise designated in a competition's eligibility guideline.
- H. 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 EVENT ATTIRE

ALL STUDENTS APPEARING IN A PRESENTATION VIDEO **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.

Please note—the Official TSA Shirt (royal blue) is mandatory for participation at the *National TSA Conference*. Students are strongly encouraged to wear the Official TSA Shirt to the NJ TSA *State Conference*, however, it is not required.

- A. Official TSA Attire:
  - Blazer: navy blue with official TSA patch
  - Tie: scarlet red imprinted with official TSA logo (males only, optional for females)

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. A polo shirt may be substituted for a collared shirt/blouse.

## VI. AWARDS

### 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 email completed forms to Alison Goeke ([goeke2@tcnj.edu](mailto:goeke2@tcnj.edu)) or Rebecca Turner ([turner25@tcnj.edu](mailto:turner25@tcnj.edu)) by 5:00pm on April 27, 2020. Go to <https://tsaweb.org/resources/student-members/student-achievement-awards> to view and print forms.

## VII. IMPORTANT DATES AND DEADLINES

### April 27, 2020:

- All competitive event entries due by 5:00 PM via email.
- Technology Honor Society, and State Officer Nominations due by 5:00 PM via email.
- State Conference Registration CLOSSES at 5:00 PM

### May 2020 (date TBD):

- Online Awards Presentation for Competitive Events and Technology Honor Society

# Level I – Middle School Events- Revised 3/31/20

## Biotechnology

Revised 3/31/20

<b>OVERVIEW:</b>	No semifinalists. No display or model. All participants submit documentation and recorded presentation.
<b>ELIGIBILITY:</b>	A team for Biotechnology may consist of 1-6 members. Students may participate in a total of three (3) competitions listed in this guide.
<b>TIME LIMITS:</b>	Five (5) minutes are allowed for the presentation.
<b>LEAP:</b>	No LEAP Response.
<b>ATTIRE:</b>	See Pages 5-6 of this guide for required dress code.
<b>PROCEDURE:</b>	<p><u>Pre-Conference:</u> 3. No display.</p> <p><u>Preliminary Round:</u> 1-2. Documentation portfolio is to be emailed to <a href="mailto:tsachall@tcnj.edu">tsachall@tcnj.edu</a> as a PDF attachment. Include “Biotechnology” and ID# in email subject line. No LEAP Response. 4. No semifinalists. Winners announced during online Awards Presentation.</p> <p><u>No Semifinal Round.</u> Delete 1-7. No semifinalists. All teams record presentation up to five (5) minutes in length. Any team member may participate in presentation. Teams may use their documentation materials for reference during the presentation.</p> <p>Video of presentation should be accessible online (e.g. YouTube) and the URL should be included in the body of the email, and in the documentation portfolio. No LEAP Response. No finalists. Top three winners announced during online Awards Presentation.</p>
<b>REGULATIONS AND REQUIREMENTS:</b>	<p><u>Pre-Conference:</u> B-B.1. Portfolio should be emailed as a PDF attachment. Delete C. No display.</p> <p><u>No Semifinal Round.</u> Delete 1-7. No semifinalists. All teams record presentation up to five (5) minutes in length. Any team member may participate in presentation. Teams may use their documentation materials for reference during the presentation.</p> <p>Video of presentation should be accessible online (e.g. YouTube) and the URL should be included in the body of the email, and in the documentation portfolio. No LEAP Response. No finalists. Top three winners announced during online Awards Presentation.</p> <p><b><i>No school or individual names labeled on projects; only State Conference ID#'s are to be used. Upon registering students for the State Conference online, they are automatically assigned a State Conference ID#. This number needs to be on all parts of student projects (i.e. portfolio, display, model, etc.)</i></b> <b><i>Team ID#s may be used for team events. A Team ID# is the first four numbers of students’</i></b></p>

	<i>individual ID#s (e.g. if a student ID# is 1234567, the Team ID# would be 1234. If there are multiple teams from one chapter for the same competition, include which team they are on (e.g. 1234-1, 1234-2, etc.).</i>
<b>EVALUATION:</b>	Delete 3. No semifinalist presentation/interview. Delete 4. No LEAP Response.  Evaluation is based on 110 points: <ul style="list-style-type: none"> <li>• Documentation (50)</li> <li>• Presentation (60) (No LEAP Response)</li> </ul>



## CAD Foundations

2020 Design Problem: <https://njtsa.tcnj.edu/wp-content/uploads/sites/23/2020/01/2020-NJ-TSA-MIDDLE-SCHOOL-DESIGN-PROBLEMS.pdf>

Revised 3/31/20

<b>OVERVIEW:</b>	No change.  The design problem can be found on the NJ TSA website: <a href="https://njtsa.tcnj.edu/wp-content/uploads/sites/23/2020/01/2020-NJ-TSA-MIDDLE-SCHOOL-DESIGN-PROBLEMS.pdf">https://njtsa.tcnj.edu/wp-content/uploads/sites/23/2020/01/2020-NJ-TSA-MIDDLE-SCHOOL-DESIGN-PROBLEMS.pdf</a>
<b>ELIGIBILITY:</b>	CAD Foundations is an individual event. A student competes by himself/herself. Students may participate in a total of three (3) competitions listed in this guide.
<b>TIME LIMITS:</b>	Delete 1-3. Entries must be submitted electronically by 5pm on April 27, 2020. There is no on-site component.
<b>LEAP:</b>	No LEAP Response.
<b>ATTIRE:</b>	See Pages 5-6 of this guide for required dress code.
<b>PROCEDURE:</b>	<p><u>Preliminary Round:</u> Delete 1-7. No on-site component. Entries must be emailed to <a href="mailto:tsachall@tcnj.edu">tsachall@tcnj.edu</a> as a PDF attachment. Include “CAD Foundations” and ID# in email subject line. No LEAP Response.</p> <p><u>Delete Semifinal Round.</u> No LEAP Response. No Finalists. Top three winners will be announced during online Awards Presentation.</p>
<b>REGULATIONS AND REQUIREMENTS:</b>	<p><u>Preliminary Round:</u> Delete A-F. No on-site component. Entries must be emailed to <a href="mailto:tsachall@tcnj.edu">tsachall@tcnj.edu</a> as a PDF attachment. Include “CAD Foundations” and ID# in email subject line.</p> <p><u>Delete Semifinal Round.</u> No LEAP Response. No semifinalists.</p> <p><b><i>No school or individual names labeled on projects; only State Conference ID#'s are to be used. Upon registering students for the <u>State Conference</u> online, they are automatically assigned a State Conference ID#. This number needs to be on all parts of student projects (i.e. portfolio, display, model, etc.)</i></b></p>
<b>EVALUATION:</b>	<p>1. Delete “on-site problem.” Entries created off site and are submitted electronically. Delete 2. No LEAP Response.</p> <p>Evaluation is based on 100 points:</p> <ul style="list-style-type: none"> <li>• Layout (70)</li> <li>• Software Utilization (30)</li> </ul>

# Children's Stories

## Pop-Up STEM Book

Choose one of the following themes for your pop-up book:

1. Communicate how increases in human population and consumption of natural resources impact Earth's systems.
2. Discuss the rise in global temperatures over the past century.
3. Describe or give an example of how synthetic materials come from natural resources.

Revised 3/31/20

<b>OVERVIEW:</b>	No change.
<b>ELIGIBILITY:</b>	A team for Children's Stories may consist of 1-6 members. Students may participate in a total of three (3) competitions listed in this guide.
<b>TIME LIMITS:</b>	Delete Semifinal Round. No on-site component. Portfolio, including photos of storybook, is electronically submitted.
<b>LEAP:</b>	No LEAP Response.
<b>ATTIRE:</b>	See Pages 5-6 of this guide for required dress code.
<b>PROCEDURE:</b>	<p><u>Pre-Conference:</u> No change.</p> <p><u>Preliminary Round:</u> 1-4. Portfolio, including photos of storybook, is emailed to <a href="mailto:tsachall@tcnj.edu">tsachall@tcnj.edu</a> as a PDF attachment by 5pm on April 27, 2020. Include "Children's Stories" and ID# in email subject line. No LEAP Response. No semifinalists. Winners announced during online Awards Presentation.</p> <p><u>Delete Semifinal Round.</u> No on-site component. No LEAP Response. Top three winners announced during online Awards Presentation.</p>
<b>REGULATIONS AND REQUIREMENTS:</b>	<p><u>Pre-Conference:</u> B.1. Portfolio should be emailed as a PDF attachment. B.2. Portfolio must include photos of each page of storybook.</p> <p><u>Preliminary Round:</u> A. Portfolio, including photos of storybook, is emailed to <a href="mailto:tsachall@tcnj.edu">tsachall@tcnj.edu</a> as a PDF attachment. Include "Children's Stories" and ID# in email subject line. No LEAP Response.</p> <p><u>Delete Semifinal Round.</u> No on-site component. No LEAP Response. Top three winners announced during Awards Presentation.</p> <p><b><i>No school or individual names labeled on projects; only State Conference ID#'s are to be used. Upon registering students for the <u>State Conference</u> online, they are automatically assigned a State Conference ID#. This number needs to be on all parts of student projects (i.e. portfolio, display, model, etc.) Team ID#s may be used for team events. A Team ID# is the first four numbers of students'</i></b></p>

	<i>individual ID#s (e.g. if a student ID# is 1234567, the Team ID# would be 1234. If there are multiple teams from one chapter for the same competition, include which team they are on (e.g. 1234-1, 1234-2, etc.).</i>
<b>EVALUATION:</b>	<u>Preliminary Round:</u> No change.  <u>Delete Semifinal Round.</u> No on-site component. No LEAP Response.  Evaluation is based on 210 points: <ul style="list-style-type: none"> <li>• Documentation (80)</li> <li>• Storybook (130)</li> </ul>

# Digital Photography

2020 Theme: Nature

Revised 3/31/20

<b>OVERVIEW:</b>	Entries are emailed to <a href="mailto:tsachall@tcnj.edu">tsachall@tcnj.edu</a> as a PDF document. No semifinalists. No on-site task.
<b>ELIGIBILITY:</b>	Digital Photography is an individual event. A student competes by himself/herself. Students may participate in a total of three (3) competitions listed in this guide
<b>TIME LIMITS:</b>	<p><u>Preliminary Round:</u> 1-2. Completed entries must be emailed to <a href="mailto:tsachall@tcnj.edu">tsachall@tcnj.edu</a> by 5pm on April 27, 2020.</p> <p><u>Delete Semifinal Round.</u> No semifinalists. No on-site task.</p>
<b>LEAP:</b>	No LEAP Response.
<b>ATTIRE:</b>	See Pages 5-6 of this guide for required dress code.
<b>PROCEDURE:</b>	<p><u>Pre-Conference:</u> 2. Entries must be emailed to <a href="mailto:tsachall@tcnj.edu">tsachall@tcnj.edu</a> by 5pm on April 27, 2020. Digital portfolio must be submitted as a <u>PDF attachment</u> to the email. Include “Digital Photography” and ID# in email subject line.</p> <p><u>Preliminary Round:</u> 1. No semifinalists. Winners announced during online Awards Presentation.</p> <p><u>Delete Semifinal Round.</u> No semifinalists. No on-site task. No LEAP Response. Top three winners announced during online Award Presentation.</p>
<b>REGULATIONS AND REQUIREMENTS:</b>	<p><u>Pre-Conference:</u> D. The portfolio must be emailed to <a href="mailto:tsachall@tcnj.edu">tsachall@tcnj.edu</a> by 5pm on April 27, 2020. It must be submitted as a PDF attachment to the email. Include “Digital Photography” and ID# in email subject line.</p> <p><u>Delete Semifinal Round.</u> No semifinalists. No on-site task. No LEAP Response. Top three winners announced during online Award Presentation.</p> <p><b><i>No school or individual names labeled on projects; only State Conference ID#’s are to be used. Upon registering students for the <u>State Conference</u> online, they are automatically assigned a State Conference ID#. This number needs to be on all parts of student projects (i.e. portfolio, display, model, etc.)</i></b></p>
<b>EVALUATION:</b>	<p>1-2. No semifinalists. No semifinal round. Delete 3-5. No LEAP response. No on-site interview/task.</p> <p>Evaluation is based on 60 points:</p> <ul style="list-style-type: none"> <li>• Portfolio Album (60)</li> </ul>

# Leadership Strategies

## 2020 Topics:

1. Your chapter has a long history of community involvement and participation in community service projects. Historically, your chapter has organized and/or participated in 3-5 events per year. However, your current community service chairperson is not doing their job. After missing several meetings, failing to meet deadlines, and not showing up to the last committee meeting, your chapter officers have decided to take action. Develop a plan to resolve the situation without removing the chairperson from their position.

2. A new elementary school is opening in your district, and the students who attend this school will eventually feed into your middle school. Your chapter has decided they would be interested in holding a summer STEM camp for students who attend this elementary school in hopes of not only teaching the students more about STEM, but also using the event to encourage those students to join your TSA chapter when they enter middle school. The principals of both schools have reservations related to the ability of middle school students to run the camp, safety/liability, and whether or not the quality of the camp would be worth the cost to attendees. Develop a plan to market the STEM camp to all stakeholders, including your principal and the elementary school principal, parents, and students.

3. Your school system has just implemented a new fundraising policy, and each club/organization is only allowed to hold two fundraisers per year (one in the fall and one in the spring). Your TSA chapter relies on monthly fundraisers to offset the cost of conference registration, travel expenses, and competition materials/equipment. Develop a plan and presentation to market TSA to local businesses in an effort to create new partnerships. The purpose of this presentation is to recruit sponsors to help offset the money you will lose as a result of the new fundraising policy. Briefly explain your plan and give that presentation.

Revised 3/31/20

<b>OVERVIEW:</b>	No change.
<b>ELIGIBILITY:</b>	A team for Leadership Strategies may consist of 1-3 members. Students may participate in a total of three (3) competitions listed in this guide.
<b>TIME LIMITS:</b>	No change.
<b>LEAP:</b>	No LEAP Response.
<b>ATTIRE:</b>	See Pages 5-6 of this guide for required dress code.
<b>PROCEDURE:</b>	<p><u>Preliminary Round:</u></p> <p>1. The team prepares and records the presentation off site. No LEAP Response.</p> <p>2-6. The team selects a topic of their choice from the above list. Presentations must be between 3-5 minutes in length. The video of the presentation must be accessible online (e.g. YouTube) and the URL should be emailed to <a href="mailto:tsachall@tcnj.edu">tsachall@tcnj.edu</a> by 5pm on April 27, 2020. Include "Leadership Strategies" and ID# in email subject line.</p> <p>8. No semifinalists. Winners announced during online Awards Presentation.</p> <p><u>Delete Semifinal Round.</u></p> <p>No semifinalists. No LEAP Response. Top three winners announced during Awards Presentation.</p>
<b>REGULATIONS AND REQUIREMENTS:</b>	<p><u>Preliminary and Semifinal Rounds:</u></p> <p>C-E. No semifinals. No on site component. The team records the presentation off site. The team selects a topic of their choice from the above list. Presentations must be between 3-5 minutes in length. The video of the presentation must be accessible online (e.g. YouTube) and the URL should be emailed to <a href="mailto:tsachall@tcnj.edu">tsachall@tcnj.edu</a> by 5pm on April</p>

	27, 2020. Include "Leadership Strategies" and ID# in email subject line.  Delete H. No LEAP Response.
<b>EVALUATION:</b>	Delete 2. No LEAP Response.  Evaluation is based on 80 points: <ul style="list-style-type: none"> <li>• Presentation (80)</li> </ul>

## Medical Technology

Revised 3/31/20

<b>OVERVIEW:</b>	<p>Teams will document their research and solution, and present their documentation through a multimedia presentation. A physical model/prototype is not required, however, sketches/drawings or other representations of the proposed model/prototype should be included in the multimedia presentation.</p> <p>No semifinalists. No in-person presentation. Winners announced at online Awards Presentation.</p>
<b>ELIGIBILITY:</b>	<p>1. A team for Medical Technology may consist of 1-6 members. Students may participate in a total of three (3) competitions listed in this guide.</p> <p>Delete 2. No semifinalists. No in-person presentation. Entries created off site and submitted electronically.</p>
<b>TIME LIMITS:</b>	No semifinalists. Multimedia presentation should be no longer than five (5) minutes in length.
<b>LEAP:</b>	No LEAP Response.
<b>ATTIRE:</b>	See Pages 5-6 of this guide for required dress code.
<b>PROCEDURE:</b>	<p><u>Pre-Conference:</u></p> <p>2. Team members prepare a multimedia presentation to show their documentation and proposed prototype.</p> <p><u>Preliminary Round:</u></p> <p>1-4. The multimedia presentation should be accessible online (e.g. YouTube) and the URL should be emailed to <a href="mailto:tsachall@tcnj.edu">tsachall@tcnj.edu</a> by 5pm on April 27, 2020. Include "Medical Technology" and ID# in email subject line. No semifinalists. Winners announced during online Awards Presentation.</p> <p><u>Delete Semifinal Round.</u></p> <p>No semifinalists. No in-person presentation. No LEAP Response. Top three winners announced at online Awards Presentation.</p>
<b>REGULATIONS AND REQUIREMENTS:</b>	<p><u>Pre-Conference:</u></p> <p>B.1. Documentation materials should be exhibited in a multimedia presentation. B.5. References and resources should be included in multimedia presentation. No LEAP Response. B.6. No physical display. B.7-8. Change "display" to "multimedia presentation." B.9. No physical display. C.1-8. No physical model/prototype. Participants should communicate their "proposed" model through sketches/drawings or other representations, and include those in their multimedia presentation.</p> <p><u>Preliminary Round:</u></p> <p>A-B. No physical display. The multimedia presentation should be accessible online (e.g. YouTube) and the URL should be emailed to <a href="mailto:tsachall@tcnj.edu">tsachall@tcnj.edu</a> by 5pm on April</p>

	<p>27, 2020. Include “Medical Technology” and ID# in email subject line. No semifinalists. Winners announced during online Awards Presentation.</p> <p><u>Delete Semifinal Round.</u>  No semifinalists.  No in-person presentation.  No LEAP Response.  Winners announced during online Awards Presentation.</p> <p><b><i>No school or individual names labeled on projects; only State Conference ID#'s are to be used. Upon registering students for the <u>State Conference</u> online, they are automatically assigned a State Conference ID#. This number needs to be on all parts of student projects (i.e. portfolio, display, model, etc.)</i></b>  <b><i>Team ID#s may be used for team events. A Team ID# is the first four numbers of students' individual ID#s (e.g. if a student ID# is 1234567, the Team ID# would be 1234. If there are multiple teams from one chapter for the same competition, include which team they are on (e.g. 1234-1, 1234-2, etc.).</i></b></p>
<p><b>EVALUATION:</b></p>	<p><u>Preliminary Round:</u>  1. Change “display” to “multimedia presentation.”</p> <p><u>Delete Semifinal Round.</u>  No semifinalists.  No in-person presentation.  No LEAP Response.</p> <p>Evaluations will be based on 130 points:</p> <ul style="list-style-type: none"> <li>• Documentation/Multimedia Presentation (90)</li> <li>• Proposed Model/Prototype (40)</li> </ul>



## Off the Grid

2020 Theme: Design a home for a family of four (4) in a country that is classified as a developing economy

Revised 3/31/20

<b>OVERVIEW:</b>	No display/model. No semifinalists. All teams submit documentation portfolio and presentation electronically.
<b>ELIGIBILITY:</b>	<p><u>Preliminary Round:</u> 1. A team for Off the Grid may consist of 1-6 members. Students may participate in a total of three (3) competitions listed in this guide.</p> <p><u>No Semifinal Round.</u> 1. All teams do presentation. Any team member may participate in presentation.</p>
<b>TIME LIMITS:</b>	No semifinalists. All teams record a presentation no longer than five (5) minutes in length.
<b>LEAP:</b>	No LEAP Response.
<b>ATTIRE:</b>	See Pages 5-6 of this guide for required dress code.
<b>PROCEDURE:</b>	<p><u>Pre-Conference:</u> 3. No display/model. Teams submit portfolio and presentation electronically.</p> <p><u>Preliminary Round:</u> 1. Documentation portfolio is to be emailed to <a href="mailto:tsachall@tcnj.edu">tsachall@tcnj.edu</a> as a PDF attachment. Video of presentation should be accessible online (e.g. YouTube) and the URL should be included in the body of the email, and in the documentation portfolio. Include "Off the Grid" and ID# in email subject line. No LEAP Response.</p> <p>Delete 3. No semifinalists. Winners announced during online Awards Presentation.</p> <p><u>No Semifinal Round.</u> 1-3. No semifinalists. All teams record presentation up to five (5) minutes in length. Any team member may participate in presentation. Teams may use their documentation materials for reference during the presentation.</p> <p>Video of presentation should be accessible online (e.g. YouTube) and the URL should be included in the body of the email, and in the documentation portfolio. No LEAP Response. No finalists. Top three winners announced during online Awards Presentation.</p>
<b>REGULATIONS AND REQUIREMENTS:</b>	<p><u>Pre-Conference:</u> B-B.1. Portfolio should be emailed as a PDF attachment. Delete C. No display/model.</p> <p><u>Delete Preliminary Round.</u> No display/model.</p> <p><u>No Semifinal Round.</u> A-C. No semifinalists. All teams record presentation up to five (5) minutes in length.</p>

	<p>Any team member may participate in presentation. Teams may use their documentation materials for reference during the presentation.</p> <p>Video of presentation should be accessible online (e.g. YouTube) and the URL should be included in the body of the email, and in the documentation portfolio. No LEAP Response. No finalists. Top three winners announced during online Awards Presentation.</p> <p><b>No school or individual names labeled on projects;</b> only State Conference ID#'s are to be used. Upon registering students for the <u>State Conference</u> online, they are automatically assigned a State Conference ID#. This number needs to be on all parts of student projects (i.e. portfolio, display, model, etc.)</p> <p>Team ID#'s may be used for team events. A Team ID# is the first four numbers of students' individual ID#'s (e.g. if a student ID# is 1234567, the Team ID# would be 1234. If there are multiple teams from one chapter for the same competition, include which team they are on (e.g. 1234-1, 1234-2, etc.).</p>
<p><b>EVALUATION:</b></p>	<p><u>Preliminary Round:</u> 1. No display.</p> <p><u>No Semifinal Round.</u> No semifinalists. All teams do presentation. No LEAP Response.</p> <p>Evaluations will be based on 160 points:</p> <ul style="list-style-type: none"> <li>• Documentation (80)</li> <li>• Design Challenge (30)</li> <li>• Presentation (50) (No LEAP Response)</li> </ul>

# Promotional Marketing

## 2020 Theme: TSA Marketing Tool Kit

You should approach your design with the following scenario in mind: You are inviting participants to attend a fictitious special interest session at the National TSA Conference that discusses how technologies can mitigate the effects of minimizing human impacts on the environment. Fake names must be used for the special interest presenters and any affiliated organizations (i.e., if using an organization for example, PETA, use "Organization for Animal Ethics" or another fake name).

1. Printable: a tri-fold brochure advertising the special interest session.
2. Wearable: a T-shirt that promotes minimizing human impacts on the environment
3. Digital Signage: to be displayed in the lobby of the Gaylord that promotes this theme.

Revised 3/31/20

<b>OVERVIEW:</b>	No semifinalists. No on-site problem. Entries submitted electronically.
<b>ELIGIBILITY:</b>	Promotional Marketing is an individual event. A student competes by himself/herself. Students may participate in a total of three (3) competitions listed in this guide.
<b>TIME LIMITS:</b>	<p><u>Pre-Conference:</u>            1. Entries must be received by 5pm on April 27, 2020.            3. Change June 10<sup>th</sup> to April 29<sup>th</sup>.</p> <p><u>Delete Semifinal Round.</u>            No semifinalists. No on-site problem.</p>
<b>LEAP:</b>	No LEAP Response.
<b>ATTIRE:</b>	See Pages 5-6 of this guide for required dress code.
<b>PROCEDURE:</b>	<p><u>Pre-Conference:</u>            Delete 2.c. No LEAP Report.            4. Printable advertisement (and supporting documentation), and wearable design (and supporting documentation), are to be emailed to <a href="mailto:tsachall@tcnj.edu">tsachall@tcnj.edu</a> as PDF attachments. Digital signage is to be sent in the form of a URL link, included in the body of the email. Entries are due by 5pm on April 27, 2020. Include ID# and "Promotional Marketing" in email subject line.            5. Change June 10<sup>th</sup> to April 29<sup>th</sup>.</p> <p><u>Preliminary Round:</u>            No semifinalists. Winners announced at Awards Ceremony.</p> <p><u>Delete Semifinal Round.</u>            No semifinalists.            No on-site problem.            No LEAP Response.            Top three winners announced at Awards Ceremony.</p>
<b>REGULATIONS AND REQUIREMENTS:</b>	<p><u>Pre-Conference</u>            D. Entries are due by 5pm on April 27, 2020.</p> <p><u>Delete Semifinal Round.</u>            No semifinalists.            No on-site problem.</p>

	<p>No LEAP Response.</p> <p><b><i>No school or individual names labeled on projects; only State Conference ID#'s are to be used. Upon registering students for the <u>State Conference</u> online, they are automatically assigned a State Conference ID#. This number needs to be on all parts of student projects (i.e. portfolio, display, model, etc.)</i></b></p>
<b>EVALUATION:</b>	<p>Delete 3. No LEAP Response. No semifinalists.</p> <p>Evaluation is based on 150 points:</p> <ul style="list-style-type: none"> <li>• Print Design (50)</li> <li>• Wearable Marketing (50)</li> <li>• Digital Signage (50)</li> </ul>

# STEM Animation

## 2020 Theme: Podcast Technologies

Context: Podcasting has become one of the most consumed mediums in the world, changing the way that information and entertainment are written, produced and delivered.

Challenge: Create a STEM animation that demonstrates what podcasting is, its production process, and what its future holds.

Revised 3/31/20

<b>OVERVIEW:</b>	No semifinalists. No presentation. Animation and portfolio submitted electronically.
<b>ELIGIBILITY:</b>	A team for STEM Animation may consist of 1-6 members. Students may participate in a total of three (3) competitions listed in this guide.
<b>TIME LIMITS:</b>	<p><u>Preliminary Round:</u>            1. Entries must be emailed to <a href="mailto:tsachall@tcnj.edu">tsachall@tcnj.edu</a> by 5pm on April 27, 2020.            3. Email verification will be made by April 29, 2020.</p> <p><u>Delete Semifinal Round.</u>            No semifinalists. No presentation. Entries created off site and submitted electronically.</p>
<b>LEAP:</b>	No LEAP Response.
<b>ATTIRE:</b>	See Pages 5-6 of this guide for required dress code.
<b>PROCEDURE:</b>	<p><u>Pre-Conference:</u>            1. No LEAP Response.            2. Entries must be emailed to <a href="mailto:tsachall@tcnj.edu">tsachall@tcnj.edu</a> by 5pm on April 27, 2020.            3. URL of the Animation must be emailed to <a href="mailto:tsachall@tcnj.edu">tsachall@tcnj.edu</a> by 5pm on April 27, 2020. Portfolio must be submitted as a <u>PDF attachment</u> to the email. No LEAP Response. Include ID# and "STEM Animation" in email subject line.</p> <p><u>Preliminary Round:</u>            No semifinalists. Top three winners announced during online Awards Presentation.</p> <p><u>Delete Semifinal Round.</u>            No semifinalists.            No presentation.            No LEAP Response.            Top three winners announced during online Awards Presentation.</p>
<b>REGULATIONS:</b>	<p><u>Preliminary Round:</u>            Delete B.11. No LEAP Response.</p> <p><u>Delete Semifinal Round.</u>            No semifinalists.            No presentation.            No LEAP Response.</p> <p><b><i>No school or individual names labeled on projects; only State Conference ID#'s are to be used. Upon registering students for the <u>State Conference</u> online, they are automatically assigned a State Conference ID#. This number needs to be on all parts of student projects (i.e. portfolio, display, model, etc.)            Team ID#s may be used for team events. A Team ID# is the first four numbers of students'</i></b></p>

	<i>individual ID#s (e.g. if a student ID# is 1234567, the Team ID# would be 1234. If there are multiple teams from one chapter for the same competition, include which team they are on (e.g. 1234-1, 1234-2, etc.).</i>

## Website Design

2020 Theme: Virtual Reality and Augmented Reality

Design Brief: <https://tsaweb.org/competitions-programs/tsa/themes-problems>

Revised 3/31/20

<b>OVERVIEW:</b>	No semifinalists. No interview. Entries submitted electronically.
<b>ELIGIBILITY:</b>	A team for Website Design may consist of 1-6 members. Students may participate in a total of three (3) competitions listed in this guide.  No semifinalists. No interview.
<b>TIME LIMITS:</b>	<u>Pre-Conference:</u> 1-2. The URL must be emailed to <a href="mailto:tsachall@tcnj.edu">tsachall@tcnj.edu</a> by 5pm on April 27, 2020. Include ID# and "Website Design" in email subject line. 4. Change date from June 10 <sup>th</sup> to April 28 <sup>th</sup> .  <u>Delete Semifinal Round.</u> No semifinalists. No interview. Entries are submitted electronically.
<b>LEAP:</b>	No LEAP Response.
<b>ATTIRE:</b>	See Pages 5-6 of this guide for required dress code.
<b>PROCEDURE:</b>	<u>Pre-Conference:</u> 4. URL must be emailed to <a href="mailto:tsachall@tcnj.edu">tsachall@tcnj.edu</a> by 5pm on April 27, 2020. Include ID# and "Website Design" in email subject line. No LEAP Response. 6. Judges review and score the entries and the top three winners will be announced during online Awards Presentation. All entries will be available to view after judging concludes.  <u>Preliminary Round:</u> No semifinalists. No on-site component. Entries submitted electronically.  <u>Delete Semifinal Round.</u> No semifinalists. No interview. No LEAP Response. Top three winners announced during online Awards Presentation.
<b>REGULATIONS:</b>	<u>Pre-conference/Preliminary Round:</u> G. URL must be emailed to <a href="mailto:tsachall@tcnj.edu">tsachall@tcnj.edu</a> by 5pm on April 27, 2020. Include "Website Design" and ID# in email subject line.  <u>Delete Semifinal Round.</u> No semifinalists. No interview. No LEAP Response.  <b><i>No school or individual names labeled on projects; only State Conference ID#'s are to be used. Upon registering students for the <u>State Conference</u> online, they are automatically assigned a State Conference ID#. This number needs to be on all parts of student projects (i.e. portfolio, display, model, etc.) Team ID#s may be used for team events. A Team ID# is the first four numbers of students' individual ID#s (e.g. if a student ID# is 1234567, the Team ID# would be 1234. If there are</i></b>

	<i>multiple teams from one chapter for the same competition, include which team they are on (e.g. 1234-1, 1234-2, etc.).</i>
<b>EVALUATION:</b>	<u>Preliminary Round:</u> No change.  <u>Delete Semifinal Round.</u> No semifinalist interview. No LEAP Response.  Evaluation based on 90 points: <ul style="list-style-type: none"> <li>• Website development (90)</li> </ul>