Virginia TSA
Competitive Events Addendum

For Use at the 2022 Virginia TSA Regional and State Conferences

An Addendum to the National TSA
2021-2023
Middle School Total TSA Guidelines
AND
2020-2022
High School Total TSA Guidelines

Version 1, October 29, 2021
ACKNOWLEDGEMENTS

The Virginia TSA Addendum to the Curricular Resource Guides reflects provisions made for Technology Education Regional Fairs and Technosphere recognition programs in Virginia. This addendum will assist Virginia TSA advisors and TSA members to plan for leadership and competitive events during the 2021-2022 school year.

We wish to express appreciation to the following individuals for their leadership and contributions in managing the Regional Fairs and Technosphere.

<table>
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<tr>
<th>Name</th>
<th>Organization</th>
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<td>Prince William County Public Schools</td>
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<td>Mrs. Charlene Gross</td>
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<td>Mr. Shawn Gross</td>
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<td>Harrisonburg City Public Schools</td>
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<td>Rockingham County Public Schools</td>
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<td>Chesterfield Public Schools</td>
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<td>Mr. Victor Terry</td>
<td>Bedford County Public Schools</td>
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<td>Loudoun County Public Schools</td>
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<td>Virginia Department of Education</td>
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Further, a special thank you is extended to all technology education teachers that contribute to the revision of this document, and for their participation in local, regional, and state level TSA programs.

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<td>Mr. B. J. Scott</td>
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<td>State Specialist for Technology Education</td>
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<td>P.O. Box 2120</td>
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<td>Petersburg, Virginia 23806</td>
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PURPOSE AND GOALS FOR COMPETITIVE EVENTS AND RECOGNITION PROGRAMS

Virginia TSA’s annual program of leadership development and competitive events provides students opportunities beyond the traditional classroom/laboratory setting which add to their increased knowledge and understanding of an ever-changing technical world.

Five goals form the foundation of Virginia TSA’s Annual Program of Activities. Consistent with their aptitudes, interests, and educational needs, all technology education students in Virginia will:

1. Gain contact with industrial and business personnel, and resources to acquire technological understanding, consumer knowledge, and competencies that lead to responsible citizenship and a more productive society.
2. Acquire democratic understanding and practice through leadership and team/group activities.
3. Plan, organize, and carry out worthy activities and projects that contribute to an improvement or service to the community.
4. Through the free enterprise system, become aware of employment or self-employment opportunities and the educational requirements for making career choices.
5. Become recognized for technological awareness, scholarship, and leadership ability.

COMPETITIVE EVENTS REFLECT A KNOWLEDGE AND UNDERSTANDING OF TECHNOLOGY

Use competitive events as learning activities for students in technology education classes. Three outcomes related to the study of technology are:

Understand the Technical World

Students’ knowledge and understanding of technical content can be increased by...

- speaking or writing about technology
- drawing, constructing, or manufacturing technological inventions or products
- identifying tools, machines, materials and processes.
- graphically representing impacts of technology
- describing technological systems
- solving technological problems

Development of Technical Adaptive Skills

Students use their knowledge and technical competence to create solutions to problems facing people by …

- drawing and modeling architectural solutions
- designing and assembling electronic devices
- creating graphic illustrations and information sources
- constructing quality products for comfort and use
- manufacturing or modeling products
- solving problems using technology
Appreciation for High Standards of Work and Safety

Students exhibit pride in work well done by …

- informing the public, parents, and fellow students about the value of technology education
- displaying their projects, drawings, and other learning activities
- demonstrating technological literacy
- attracting attention through good design and aesthetic arrangement
- promoting careers in technology

MOTIVATION OF STUDENTS THROUGH COMPETITIVE EVENTS

Make the The Competitive Events Guide available to students. Some competitive events have criteria that relate specifically to course content, while any student can enter others. Competition can be used to motivate student work both in classes and in chapters. Competitive events relate to most courses and should be used as intra-curricular learning activities by any student. Certain events test students' understanding of basic technological concepts and processes, while others challenge students to apply their technical skills in problem solving and research.

The following steps will help teachers to motivate students through competitive events:

1. Introduce competitive events to each class early in the school year.
2. Select competitive events related to course content.
3. Use competitive events as co-curricular learning activities.
4. Evaluate students' progress through competition and other experiences.
5. Involve class members, parents, and school staff in judging local chapter activities.
6. Register students in regional, state, and national conferences.
7. Recognize students who compete through news media, awards programs, and school assemblies.
COMPETITION LEVELS

INDIVIDUAL EVENTS

Student members shall participate in individual events according to their official grade classification level in school:

- Middle: Grades 6 - 8
- High: Grades 9 - 12

TEAM EVENTS

Teams shall participate according to the official school classification level as identified in the school name:

- Middle: Middle, Intermediate, or Junior High School
- High: High Schools

RECOGNITION PROGRAMS

Chapters shall participate according to the official school classification level as identified in the school name where the chapter is affiliated:

- Middle: Middle, Intermediate, or Junior High Schools
- High: High Schools

SPECIAL PROGRAM EVENTS

Schools shall participate according to the official school classification level as identified in the school name:

- Middle: Middle, Intermediate, or Junior High Schools
- High: High Schools
ELIGIBLE PARTICIPANTS

STUDENTS

Regional Fair and Technosphere participation is available to Virginia TSA members who are:

1. Enrolled for the current school year in grades K-12.
2. Affiliated through a chapter at the national level
3. Officially registered for participation.
4. Abide by the behavior code adopted by Virginia TSA.

CHAPTERS

Chapter participation is available to nationally affiliated Virginia TSA chapters in good standing as of January 31, 2022 and registered for the activity. For fall virtual competitive events, you need to be affiliated before a particular event registration closes.

SCHOOLS

Participation is available to all K-12 Virginia schools, both public and private, which offer officially recognized technology education programs, or which enroll students from feeder schools that officially recognized technology education programs.

VIRGINIA TSA STUDENTS COMPETING AT NATIONAL TSA COMPETITION

If a student places 1st, 2nd, or 3rd in a Technosphere competitive event that requires the state to select the national representative(s) for the same competitive event, the chapter advisor of the respective Technosphere winner(s) must notify the Virginia TSA State Advisor via email by May 21, 2022 if they plan to register and compete in the same competitive event at the National TSA Conference. If the Virginia TSA State Advisor does not receive notice and confirmation from the respective chapter advisor that their student will compete in the respective competitive event by May 21st, the State Advisor will proceed to contact the 4th, 5th, or 6th place winners, and so forth until Virginia TSA can confirm a state representative for the respective competitive event. NOTE: Once this process starts, the Technosphere 1st, 2nd, or 3rd place winners, and so forth, shall forfeit their eligibility to compete in the same competitive event at the National TSA Conference.

Note to the Teacher: All students are encouraged to prepare early for leadership development activities and competitive events. Advisors should ensure students have reviewed completely ALL Rules and Guidelines, general and specific, for their respective competitive event(s). Advisors and students are further encouraged to regularly check the following link for updates and clarification of specific events regulations and guidelines:

http://tsaweb.org/Updates-and-Clarification
GENERAL COMPETITIVE EVENT GUIDELINES

ADVISOR RESPONSIBILITIES

The advisor shall:

1. Notify students and parents of the need for accident insurance coverage.
2. Obtain the signature of both student and parent on the Delegate Conduct Agreement, medical release, and other required forms.
3. File the list of students who have completed the Delegate Conduct Agreement form, medical release form and student liability form with the school principal's office.
4. Notify Virginia TSA of any special needs for students with disabilities.
5. Read and enforce the Delegate Conduct Agreement and assume all obligations required by this Code.
6. Email or mail registration forms and papers according to deadline printed in the Registration Packet for each conference, event or activity. (Examples: Hotel Reservation, competitive events and recognition programs, etc.)
7. Monitor all TSA students in attendance at regional and state activities.
8. Assume full responsibility for their students at all Regional, State, or National Conferences.
9. Encourage students early to prepare high quality products resultant of exceptional planning, design, and implementation.
10. Enter students or projects in local and/or regional competition to select students for participation at the state level. Students or projects entered illegally in a competitive event will be disqualified from competition.
11. Ensure that no explosives, combustible materials, useable weapons, or any type of inappropriate or unsafe items are entered or exhibited.
12. Know and understand criteria for competitive events entered and clarify rules for students using the correct documents.
13. Recognize students through news media, awards programs, and school assemblies.
14. Provide supervision for a maximum of ten (10) students per advisor and/or chaperone.
15. Enforce proper conduct and dress expected of all members throughout any Virginia TSA sponsored event. Participants violating or ignoring conduct rules risk unseating their entire delegation and disqualifying their chapter’s competitive event entries. Individual participants may be sent home at their own expense. Curfews will be enforced, and students must be in assigned rooms by the announced time.
I. The 2021-2022 Virginia TSA official competitive events are:

**MIDDLE SCHOOL PROGRAM**
- Biotechnology
- CAD Foundations
- Career Prep
- Challenging Technology Issues
- Chapter Team
- Children’s Stories
- Coding
- Community Service Video
- Construction Challenge
- Cybersecurity Foundations
- Data Science and Analytics
- Digital Photography
- Dragster
- Electrical Applications
- Essays on Technology
- Flight
- Forensic Technology
- Foundations of Information Technology
- Geospatial Technology (VA only)
- Inventions and Innovations
- Junior Solar Sprint
- Leadership Strategies
- Mass Production
- Mechanical Engineering
- Medical Technology
- Microcontroller Design
- Off the Grid
- Prepared Speech
- Problem Solving
- Promotional Marketing
- STEM Animation
- Structural Engineering
- System Control Technology
- Technology Bowl
- Technical Design
- Vex IQ Robotics
- Video Game Design
- Website Design

**HIGH SCHOOL PROGRAM**
- Animatronics
- Architectural Design
- Biotechnology Design
- Board Game Design
- Chapter Team
- Children’s Stories
- Coding
- CIM (Computer Integrated Manufacturing)
- CAD – Architectural
- CAD – Engineering
- Cybersecurity
- Data Science and Analytics
- Debating Technological Issues
- Digital Video Production
- Dragster Design
- Engineering Design
- Essays on Technology
- Extemporaneous Speech
- Fashion Design and Technology
- Flight Endurance
- Forensic Science
- Future Technology Teacher
- Geospatial Technology
- IT Fundamentals
- Music Production
- On Demand Video
- Photographic Technology
- Prepared Presentation
- Principles of Technology (VA only)
- Promotional Design
- STEM Careers (VA only)
- Structural Design and Engineering
- System Control Technology
- Technology Bowl
- Technology Problem Solving
- Transportation Modeling
- Vex Robotics
- Video Game Design
- Webmaster

**Virginia Special Awards and Recognition Programs**

- Advisor of the Year - Middle and High School
- Century Award - Middle and High School
- Chapter Excellence - Middle and High School

Community Service Award - Middle and High School
Member of the Year - Middle and High School
Commendation Award - School Division
II. Levels of Competition

A. Chapter members and advisors shall enter competitive events according to chapter level.

B. The following breakdown of grades is used as categories for competitive event entry levels: Middle School - Grades 6 – 8; & High School - Grades 9 – 12.

C. Concerning team and individual entries, students in grades 6 through 8 who are members of a High School chapter must compete as High School Level members in team events, but may compete as Middle School Level members in individual events. Students in grade 9 must compete as High School Level participants.

D. The term “team” is defined as two or more students. Therefore, if a competitive event does not specify the number of students that comprise the team, the minimum number of students shall be two (2).

E. A combined school (i.e., grades 6-12) may elect to affiliate a Middle School Level chapter and High School Level chapter.

III. Participation in Competitive Events

A. In the event a question or a problem arises that has not been covered in the "General Rules" or the individual competitive event guidelines; the standards review committee will render a decision for the conference.

B. Should a conflict develop that prevents a member from participating in more than one event, the participant will decide which event entry will be eliminated, with consideration to team events first.

C. It will be the individual responsibility of all participants to obtain all rules and guidelines for his/her events. Lack of knowledge or understanding about a particular event will not be the reason or excuse for individual change or adjustment consideration.

D. Check the state and national websites for updates and changes often.

E. Competitive event concerns or requests to review the results of a competition during Regional Fairs or Technosphere must be submitted in writing to the Regional Fair Chair or Technosphere Chair prior to the end of the Regional Fair or Technosphere.

F. TSA members, advisors, and chapters must be affiliated with national TSA by January 31, 2022 in order to enter any competitive event at Regionals and Technosphere.

G. Students and advisors must be registered and in attendance in order to enter and become finalists in competitive events.

H. TSA membership rights extend through the year of graduation.

I. Advisors will be entered in the same level as their chapter is entered.

J. Participants may enter a maximum of five (5) competitive events at the regional fairs and six (6) at Technosphere unless noted otherwise in this document. For Technosphere this shall include Special awards known as C-events.

K. If a contestant violates the competitive event rules, the decision to deduct 20 percent of the total possible points or disqualify the entry will be made based on competitive event rules and signed off by the State Advisor.

L. Participants in Technosphere competitive events that are offered at the Regional Fairs must have been among the top three winners at their respective Regional Fair in order to enter the same event at Technosphere. If a regional fair winner cannot attend Technosphere, substitutions shall not be permitted in individual events; however, if a member of a team event is unable to attend Technosphere, substitutions are allowed as long as at least one of the original team members is still a participant on the team.
M. Participants in Virginia TSA Regional Fairs and Technosphere must be members of the same local chapter in order to compete in competitive events.

IV. Restrictions on Individual, Group, and Team Entries

A. Chapters may have five (5) entries per competitive event at the Regional Fair in each event unless specified differently on pages 14-17.

B. Events which must be emailed by the April 15, 2022 deadline are: Advisor of the Year, Member of the Year, Century Award, Chapter Excellence, Commendation Award, Community Service Award. Plaques will not be presented at Technosphere if the correct forms are not mailed to Virginia TSA by the registration deadline, in addition to online registration submission.

C. Chapters will register teams for team competitions.

V. Awards

A. Awards are presented to the winning entries in each competitive event at the awards presentation ceremony. First, second, and third place awards will be presented for each competitive event as listed under Section I of the General Competitive Events Guidelines.

B. The top 10 finalists in each event at Technosphere will receive a finalist pin. In addition, the top 10 finalists at Technosphere in each event will be posted on the Virginia TSA website.

C. First, second, and third place awards are included in the number of finalists.

VI. Pre-conference mail-in events

A. Each entry must be postmarked or emailed by entry deadlines as posted in Regional Fair and/or Technosphere Registration packet.

B. Online registration must also be completed.

VII. Recording devices: No recording devices are allowed in events that are closed to public viewing during competition.
GENERAL COMPETITIVE EVENT GUIDELINES

VIII. Regional Fairs and Technosphere Attire

*During all general sessions, students and advisors shall wear official TSA attire or Competition attire. Refer to the national competitive events guide for required competition attire.*

A. Official Virginia TSA attire:

- **Blazer:** Navy blue with official Virginia TSA patch
- **Tie or Scarf:** Scarlet red imprinted with TSA logo (male only)
- **Shirt or Blouse:** White, button-up with turn-down collar or Men’s or Women’s Official TSA Shirt sold in the TSA Store at www.tsaweb.org. Pants or Skirt: light gray (skirt length even with tips of one’s fingers)
- **Shoes:** Black dress shoes (athletic shoes, work boots, or combat boots are not acceptable)
- **Sandals:** Females only may wear black open-toed dress shoes or sandals
- **Socks/Hosiery:** Black socks (male)

**Note:** All TEAM members competing in Chapter Team must be dressed alike. Either White Shirts or Official TSA Shirts; they cannot be mixed.

B. Competition attire:

- **Tie or Scarf:** Scarlet red imprinted with TSA logo (Optional)
- **Shirt or Blouse:** Button-up shirt/blouse with turn-down collar, either white or Official TSA shirts (not t-shirts or polo/golf shirts)
- **Pants or Skirt:** Gray or khaki. Skirts (Even with the tips of fingers)
- **Socks:** Dark socks, black or blue
- **Shoes:** Dress shoes or Boots (no athletic shoes, work boots, or combat boots)
- **Sandals:** Females only may wear open-toed dress shoes or sandals

C. Casual attire:

Casual attire must comply with the participants’ local school division dress code policy. Casual attire shall not be worn during general sessions or competition.

D. Conference identification badges must be worn at all times in a visible location.


GENERAL COMPETITIVE EVENT GUIDELINES

IX. Event Items

A. Projects/products/displays must be entered in the same year in which the work on the item started. Unless otherwise specified, no identifying information other than ID # should be included on an entry.

B. Students and advisors are solely responsible for picking up their event items during the event pick-up time. Virginia TSA will not pick-up or store any items after a Regional Fair or Technosphere.

C. Must provide—and bring to the test site—two (2) pencils (sharpened standard #2/HB grade with an eraser, or #2 mechanical with an eraser) for any competition that involves a written test.

D. For all events that require portfolios, the following applies: the cover page is NO LONGER on the outside of the notebook/album; the cover page is the first page inside the portfolio/album.

High School and Middle School competitive events will require “Portfolios” rather than 3 ring binder “Notebooks.” Documentation materials (comprising “a portfolio”) are required and must be secured in a clear front report cover. Examples can be found at the following link: https://www.staples.com/Clear-Report-Covers/cat_CL130501/5yduo

E. For all applicable competitive events, written work—including citations or references—must follow MLA (Modern Language Association) style.

F. All entries must be the original work of the student participant or student team. All ideas, text, images, and sound from other sources must be cited, including anything that is from the public domain. References and resources must be cited using MLA (Modern Language Association) style, the most current edition. If copyrighted material is used, proper written permission must be included. Failure to follow this procedure results in disqualification. Copyright includes graphics.

G. All competitive events with a semifinalist component will have a minimum of twelve (12) semifinalists. Semifinalists (individuals or teams, as applicable) will compete against one another to determine the top ten (10) finalists in an event.

H. Hazardous materials, chemicals, lighted or open flames, combustibles, wet cell batteries, and other similar substances are not allowed at the Virginia TSA Regional Fairs or Technosphere.

I. No electronic communication devices of any kind are permitted during competition. Cell phones, walkie-talkies, pagers, etc. must be turned off.

J. Everyone who wishes to attend the conference must complete conference registration. This includes student delegates and parents who will only be present at the Awards Ceremony.

K. Rules violations and disqualifications: A rules violation that gives a contestant an unfair advantage will result in a twenty percent (20%) deduction of the total possible points. The event coordinator must sign off on a 20% deduction and The State Advisor must sign off on all disqualifications.

X. Virginia TSA will not be responsible for any personal property, equipment or materials brought to a Regional Fair or Technosphere for use by participants.

XI. All competitive events will be judged in accordance with the stated criteria for each event as shown in the 2021-2022 Total TSA Guide with the exception of any state requirements outlined in the Virginia TSA Competitive Events Addendum. All judges’ rating sheets are the property of Virginia TSA. The information on the rating sheets is confidential and will not be disseminated without a written request.

XII. Advisors should carefully review their registration selection(s) for each competitive event prior to online submission. Registration errors are the responsibility of the chapter advisor to correct and ensure accuracy in accordance with the procedures and deadlines established by Virginia TSA. On-site changes and/or additions shall not be permitted.
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<tr>
<th>CODE</th>
<th>EVENT</th>
<th>NOTES</th>
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<tr>
<td>A-2</td>
<td>CAD Foundations</td>
<td>Three individual entries per chapter, one entry per individual. Using the current middle school guide, participants have the opportunity to demonstrate their understanding of CAD fundamentals as they create a two-dimensional graphic representation of an engineering part or object. Students must provide all equipment, software, and supplies. <strong>Students will login to the judges system at the scheduled time and place of this event for their regional fair. The scenario and submission button will be present for the student in the system.</strong></td>
</tr>
<tr>
<td>A-3</td>
<td>Career Prep</td>
<td>Five individual entries per chapter, one entry per individual. Using the current middle school guide, design and produce a cover letter and a chronological or skills resume based on research. See National Themes and Problems (<a href="http://tsaweb.org/Themes-and-Problems">http://tsaweb.org/Themes-and-Problems</a>) for Career Clusters. No semifinalist interview portion at Regional Fair. Students will be able to upload their work to the judges system beginning at noon the day before their Regional Fair through 8 AM the morning of their Regional Fair.</td>
</tr>
<tr>
<td>A-4</td>
<td>Challenging Technology Issues</td>
<td>Three teams of 2 members per chapter, one entry per team. Using the current middle school guide, participants prepare and deliver an extemporaneous, debate style presentation with team members. See National Themes and Problems (<a href="http://tsaweb.org/Themes-and-Problems">http://tsaweb.org/Themes-and-Problems</a>). Students will report to the designated room for this event at their Regional Fair.</td>
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<tr>
<td>A-8</td>
<td>Community Service Video</td>
<td>One team per chapter, 2-6 members per team, one entry per team. Using the current middle school guide, create and submit a finished video that depicts a community service project of their choice. <strong>No semifinalist interview portion at Regional Fair. Students will be able to upload their work to the judges system beginning at noon the day before their Regional Fair through 8 AM the morning of their Regional Fair.</strong></td>
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<tr>
<td>A-12</td>
<td>Digital Photography</td>
<td>Five individual entries per chapter, one entry per individual. Using the current middle school guide, participants produce an album consisting of color or black and white digital photographs that represent or relate to a chosen theme. The theme for 2022 is personal, school, family, friends, etc. (No semifinalist portion at Regional Fair.) <strong>Students will be able to upload their work to the judges system beginning at noon the day before their Regional Fair through 8 AM on the day of their Regional Fair.</strong></td>
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<tr>
<td>A-13</td>
<td>Dragster</td>
<td>Five individual entries per chapter, one entry per individual. Using the current middle school guide, design and produce a fast CO2 powered dragster according to stated specifications and using certain specific materials. See National Themes and Problems (<a href="http://tsaweb.org/Themes-and-Problems">http://tsaweb.org/Themes-and-Problems</a>). Dragsters not meeting building tolerances specified in the 2021-2023 Total TSA shall be disqualified and will NOT be raced. No semifinalist interview at Regional Fair. Cars and drawings will be dropped off at the designated room of the Regional Fair building site determined by that particular Regional Fair team.</td>
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<tr>
<td>CODE</td>
<td>EVENT</td>
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</tr>
<tr>
<td>A-15</td>
<td>Essayson Technology</td>
<td>Five individual entries per chapter, one entry per individual. Using the current middle school guide, participants conduct research in specified subtopics of a broader technological area. Participant turns in a comprehensive outline. The topic for the 2022 conference is located at: <a href="http://tsaweb.org/Themes-and-Problems">http://tsaweb.org/Themes-and-Problems</a>. Event time is one (1) hour. There will be no Semi-Finalist Portion at the Regional Fair. Students will login to the judges system at the scheduled time onsite of this event for their regional fair. The scenario and submission button will be present in the system. Students will need a laptop or computer to compete in this event.</td>
</tr>
<tr>
<td>A-16</td>
<td>Flight</td>
<td>Five individual entries per chapter, one entry per individual. Using the current middle school guide, participants create a glider that stays in flight for the greatest elapsed time. <strong>Giders will be launched from a catapult that is provided onsite. Students bring documentation portfolio with all components, and assembled glider for testing to their onsite Regional Fair location on the date and time given by their specific Region. No semifinal portion at Regional Fair.</strong></td>
</tr>
<tr>
<td>A-28</td>
<td>Prepared Speech</td>
<td>Five individual entries per chapter, one entry per individual. Using the current middle school guide, participants deliver an oral presentation that reflects the theme. Theme for 2022 is <strong>Discover Your Journey.</strong> Students will be able to give their speech at the designated room and time onsite determined by each individual regional fair.</td>
</tr>
<tr>
<td>A-30</td>
<td>Promotional Marketing</td>
<td>Five individual entries per chapter, one entry per individual. Using the current middle school guide, participants create a three-part <strong>TSA Marketing Toolkit</strong> that must include items specified in the national Themes and Problems. See National Themes and Problems (<a href="http://tsaweb.org/Themes-and-Problems">http://tsaweb.org/Themes-and-Problems</a>). There will be no Semi-Finalist Portion at Regional Fair. Students will be able to upload their work to the judges system beginning at noon the day before their Regional Fair through 8 AM on the day of their Regional Fair.</td>
</tr>
<tr>
<td>A-31</td>
<td>STEM Animation</td>
<td>Five teams per chapter one entry per team, 1-6 members per team. Using the current middle school guide, participants use computer graphic tools and design processes to communicate, inform, analyze and/or illustrate a topic, idea, subject or concept. (No semifinalist portion will be held at Regional Fair.) <strong>Students will be able to upload their work to the judges system beginning at noon the day before their Regional Fair through 8 AM on the day of their Regional Fair.</strong></td>
</tr>
<tr>
<td>A-32</td>
<td>Structural Engineering</td>
<td>Two teams of 2 members per chapter, one entry per team. Using the current middle school guide, participants apply the principles of structural design and engineering through basic research, design, construction and destructive testing to determine the design efficiency of the structure. <strong>Students will drop off their Pre-Built structure to an onsite location chosen by their particular Regional Fair.</strong> See National Themes and Problems for the design brief and team verification forms and other needed information. (<a href="http://tsaweb.org/Themes-and-Problems">http://tsaweb.org/Themes-and-Problems</a>).</td>
</tr>
<tr>
<td>A-33</td>
<td>SystemControl Technology</td>
<td>Two teams of 3 members per chapter, one entry per team. Using the current middle school guide, participants use a team approach to develop a computer controlled model solution to a given problem, typically one from an industrial setting. Teams must provide all equipment. <strong>Problem will be provided to the teams at the designated room for this event at their Regional Fair.</strong> This event will happen in the room designated by their particular Regional Fair. No interview portion at Regional Fair.</td>
</tr>
</tbody>
</table>

It is essential that students and advisors routinely check the TSA website (www.tsaweb.org) for updated information about TSA competitive events. This information is found on the website under.
Competitions/Updates and Clarification, and themes and problems. When students participate in any TSA competitive event, they are responsible for knowing of updates, changes, or clarification related to that event.

*Check the Virginia TSA Website for updated versions of the Addendum*
<table>
<thead>
<tr>
<th>CODE</th>
<th>EVENT</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-4</td>
<td>Board Game Design</td>
<td>Using the current high school guide, develop, build and package a board game that focuses on the subject of your choice. The game should be interesting, exciting, visually appealing and intellectually challenging. <strong>No semifinals at Regional Fair. Students will drop off all documentation and the game at the onsite location provided by their Regional Fair.</strong></td>
</tr>
<tr>
<td>B-8</td>
<td>CAD Architecture</td>
<td>Using the current high school guide, students must provide all equipment, software and supplies. The event time limit will be two (2) hours. <strong>Students will report to the location provided by their Regional Fair to do this event, problem will be provided then.</strong></td>
</tr>
<tr>
<td>B-9</td>
<td>CAD Engineering</td>
<td>Using the current high school guide, students must provide all equipment, software and supplies. The event time limit will be two (2) hours. <strong>Students will report to the location provided by their Regional Fair to do this event, problem will be provided then.</strong></td>
</tr>
<tr>
<td>B-10</td>
<td>Computer Integrated Manufacturing (CIM)</td>
<td>Using the current high school guide, participants design, fabricate and use Computer Integrated Manufacturing (CIM) to create an original design and build an ice cream scoop. <strong>No Semifinalist portion will be held at Regional Fair.</strong></td>
</tr>
<tr>
<td>B-13</td>
<td>Debating Technological Issues</td>
<td>Using the current high school guide, teams will be instructed to take the Pro or Con side of the selected subtopic. The theme for 2022 is: Americans rely daily on the internet for information, education and social media. See National Themes and Problems for subtopics (<a href="http://tsaweb.org/Themes-and-Problems">http://tsaweb.org/Themes-and-Problems</a>). Students will report to the designated room for this event provided by their Regional Fair.</td>
</tr>
<tr>
<td>B-14</td>
<td>Digital Video Production</td>
<td>Using the current high school guide, participants develop a digital video/film that focuses on the given year’s theme. The theme for 2022 is: A day in the self, school, family, friends, etc. <strong>No Semifinalist portion will be held at Regional Fair. Students will be able to upload their work to the judges system beginning at noon the day before their Regional Fair through 8 AM the morning of their Regional Fair.</strong></td>
</tr>
<tr>
<td>B-15</td>
<td>Dragster Design</td>
<td>Using the current high school guide, participants design, produce working drawings for, and build a CO2- powered dragster. <strong>Dragsters not meeting building tolerances specified in the 2021-2023 Total TSA guide shall be disqualified and will NOT be raced. No semifinalist portion at Regional Fair. Cars and drawings will be dropped off onsite to a specific location that will be announced by each Regional Fair.</strong></td>
</tr>
<tr>
<td>B-17</td>
<td>Essayson Technology</td>
<td>Using the current high school guide, participants will write a synthesis essay to make insightful connections based on a current technological topic. Participants will be provided with a prompt and a series of two (2) or more articles on a current technological topic. There will be a 90 minute Time Limit. <strong>Students will login into the judge systeom onsite at the scheduled time of this event for their regional fair. The scenario and submission button will be present in the system.</strong></td>
</tr>
<tr>
<td>B-18</td>
<td>Extemporaneous Speech</td>
<td>Using the current high school guide, participants give a three to five (3-5) minute speech on a topic provided. <strong>Students will report to the designated room provided by their Regional Fair to participate in this event.</strong></td>
</tr>
<tr>
<td>CODE</td>
<td>EVENT</td>
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</tr>
<tr>
<td>B-20</td>
<td>Flight Endurance</td>
<td>Five individuals per chapter, one entry per individual \ Using the current high school guide, participants analyze flight principles with a rubber band powered model aircraft. Student's models must be built and test flown before the Regional Fair. Students must provide documentation Portfolio and model. Refer to 2021-2022 Total TSA Guide. <strong>Students bring documentation portfolio with all components, and assembled aircraft for testing to their Regional Fair location.</strong> That room will be determined by the individual Regional Fair. No semifinal portion at Regional Fair.</td>
</tr>
<tr>
<td>B-25</td>
<td>Music Production</td>
<td>Three teams per chapter, 2-8 members per team, one entry per team \ Using the current high school guide, participants produce an original musical piece that is designed to be played during the national TSA conference opening or closing general session. No semifinalist interview portion at Regional Fair. <strong>Students will be able to upload their work to the judges system beginning at noon the day before their Regional Fair through 8 AM the morning of their Regional Fair.</strong></td>
</tr>
<tr>
<td>B-27</td>
<td>Photographic Technology</td>
<td>Five individual entries per chapter, one entry per individual \ Using the current high school guide, participants capture images and process photographic and digital prints that depict the current year's theme. See National Themes and Problems (<a href="http://tsaweb.org/Themes-and-Problems">http://tsaweb.org/Themes-and-Problems</a>) for 2022 theme. No semifinalist portion at Regional Fair. <strong>Students will be able to upload their work to the judges system beginning at noon the day before their Regional Fair through 8 AM the morning of their Regional Fair.</strong></td>
</tr>
<tr>
<td>B-28</td>
<td>Prepared Presentation</td>
<td>Five individual entries per chapter, one entry per individual \ Using the current high school guide, participants deliver an oral presentation, using a digital slide deck, on a topic that will be posted in the judges system the Thursday evening at 8 PM before your particular Regional Fair. <strong>Students will login into the judges system at the scheduled time to see the prompt. Students will then report to the room determined by their Regional Fair at the scheduled time the day of the Regional Fair to do their presentation.</strong></td>
</tr>
<tr>
<td>B-30</td>
<td>Promotional Design</td>
<td>Five individual entries per chapter, one entry per individual \ Using the current high school guide, participants use computerized graphic communication layout and design skills in the production of a promotional resource for TSA. See National Themes and Problems (<a href="http://tsaweb.org/Themes-and-Problems">http://tsaweb.org/Themes-and-Problems</a>). No Semifinalist portion at the Regional Fair. <strong>Students will be able to upload their work to the judges system beginning at noon the day before their Regional Fair through 8 AM the morning of their Regional Fair.</strong></td>
</tr>
<tr>
<td>B-34</td>
<td>Structural Design and Engineering</td>
<td>Two teams of 2 members per chapter, one entry per team \ Using the current high school guide, participants apply the principles of structural design and engineering through basic research, design, construction and destructive testing to determine the design efficiency of the structure. <strong>Students will drop off their Pre-Built structure to an onsite location chosen by their particular Regional Fair. See National Themes and Problems for the design brief and team verification forms and other needed information. (<a href="http://tsaweb.org/Themes-and-Problems">http://tsaweb.org/Themes-and-Problems</a>).</strong></td>
</tr>
<tr>
<td>B-35</td>
<td>System Control Technology</td>
<td>Two teams of 3 members per chapter, one entry per team \ Using the current high school guide, participants work as part of a team to develop a computer controlled model solution to a problem. Students will have 2 hours to work. Teams must provide all equipment. <strong>Problem will be provided onsite. This event will happen in the room designated by their particular Regional Fair. No semifinal portion interview at Regional Fair.</strong></td>
</tr>
<tr>
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<tr>
<td>B-38</td>
<td>Transportation Modeling</td>
<td>Five individual entries per chapter, one entry per individual Using the current high school guide, participants use engineering skills to design and fabricate a scale model of a vehicle. See National Themes and Problems (<a href="http://tsaweb.org/Themes-and-Problems">http://tsaweb.org/Themes-and-Problems</a>). Students will be able to turn in their model and documentation at the onsite location room and time chosen by their Regional fair.</td>
</tr>
<tr>
<td>B-40</td>
<td>Video Game Design</td>
<td>Three teams per chapter, 2-8 members per team, one entry per team Using the current high school guide, participants develop a game that focuses on the idea of their choice based on the posted theme. The game should be interesting, exciting, visually appealing, and intellectually challenging, with high artistic, educational, and social value. The game must be appropriate for the TSA community, and in good taste. See National Themes and Problems (<a href="http://tsaweb.org/Themes-and-Problems">http://tsaweb.org/Themes-and-Problems</a>). No semifinalist interview/game demonstration portion at Regional Fair. Students will be able to upload their work to the judges system beginning at noon the day before their Regional Fair through 8 AM the morning of their Regional Fair.</td>
</tr>
</tbody>
</table>

It is essential that students and advisors routinely check the TSA website (www.tsaweb.org) for updated information about TSA competitive events. This information is found on the website under Competitions/Updates and Clarification, and themes and problems. When students participate in any TSA competitive event, they are responsible for knowing of updates, changes, or clarification related to that event.

*Check the Virginia TSA Website for updated versions of the Addendum*
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<thead>
<tr>
<th>CODE</th>
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<th>NOTES</th>
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<tbody>
<tr>
<td>A-1</td>
<td>Biotechnology</td>
<td>One team per chapter, 2-8 members per team</td>
</tr>
<tr>
<td>A-2*</td>
<td>CAD Foundations</td>
<td></td>
</tr>
<tr>
<td>A-3 *</td>
<td>CareerPrep</td>
<td></td>
</tr>
<tr>
<td>A-4*</td>
<td>Challenging Technology Issues</td>
<td></td>
</tr>
<tr>
<td>A-5</td>
<td>Chapter Team</td>
<td>One team of 6 members per chapter</td>
</tr>
<tr>
<td>A-6</td>
<td>Children’s Stories</td>
<td>Two teams of 1-6 members per chapter</td>
</tr>
<tr>
<td>A-7</td>
<td>Coding</td>
<td>Three teams of 2 members per chapter</td>
</tr>
<tr>
<td>A-8*</td>
<td>Community Service Video</td>
<td></td>
</tr>
<tr>
<td>A-9</td>
<td>Construction Challenge</td>
<td>One team per chapter, 2-8 members per team</td>
</tr>
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<tr>
<td>A-10</td>
<td>Cybersecurity Foundations</td>
<td>Two individuals per chapter</td>
</tr>
<tr>
<td>A-11</td>
<td>Data Science and Analytics</td>
<td>Two teams of 2-3 members per chapter</td>
</tr>
<tr>
<td>A-12 *</td>
<td>Digital Photography</td>
<td></td>
</tr>
<tr>
<td>A-13 *</td>
<td>Dragster</td>
<td></td>
</tr>
<tr>
<td>A-14</td>
<td>Electrical Applications</td>
<td>Three teams of 2 per chapter</td>
</tr>
<tr>
<td>A-15 *</td>
<td>Essays on Technology</td>
<td></td>
</tr>
<tr>
<td>A-16 *</td>
<td>Flight</td>
<td></td>
</tr>
<tr>
<td>A-17</td>
<td>Forensic Technology</td>
<td>Three teams of 2 members per chapter</td>
</tr>
<tr>
<td>CODE</td>
<td>EVENT</td>
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<tr>
<td>A-18</td>
<td>Foundations of Information Technology (FIT)</td>
<td>Two individuals per chapter. Participants will use the Technosphere program to determine the location and time of their seminar. Testing will take place on 4/29/22 starting at noon. Computer or laptop device will be needed.</td>
</tr>
<tr>
<td>A-19</td>
<td>Geospatial Technology</td>
<td>Three teams of 1-5 members per chapter. Participants develop a portfolio, addressing a problem. See Page 30 for more information.</td>
</tr>
<tr>
<td>A-20</td>
<td>Inventions &amp; Innovations</td>
<td>One Team per chapter. One entry per team. Students will drop off their project and documentation at the room and time printed in the Technosphere program.</td>
</tr>
<tr>
<td>A-21</td>
<td>Junior Solar Sprint</td>
<td>One team per chapter. Students will use the Technosphere program to find the time and location of this event.</td>
</tr>
<tr>
<td>A-22</td>
<td>Leadership Strategies</td>
<td>One team of 3 members per chapter. Students will use the Technosphere program to find the time and location of this event.</td>
</tr>
<tr>
<td>A-23</td>
<td>Mass Production</td>
<td>One team of 2-8 members per chapter. Students will drop off their project and documentation at the room and time printed in the Technosphere program.</td>
</tr>
<tr>
<td>A-24</td>
<td>Mechanical Engineering</td>
<td>Two teams of 3-6 members per chapter. Students will drop off their project and documentation at the room and time printed in the Technosphere program.</td>
</tr>
<tr>
<td>A-25</td>
<td>Medical Technology</td>
<td>One team per chapter. Students will drop off their project and documentation at the room and time printed in the Technosphere program.</td>
</tr>
<tr>
<td>A-26</td>
<td>Micro Controller Design</td>
<td>One team of 3-5 members per chapter. Students will drop off their project and documentation at the room and time printed in the Technosphere program.</td>
</tr>
<tr>
<td>A-27</td>
<td>Off the Grid</td>
<td>Three teams of 4-6 members per chapter. Students will drop off their project and documentation at the room and time printed in the Technosphere program.</td>
</tr>
</tbody>
</table>

The house must be designed in an area that has no access to the power grid. It must include solar technology. The design and construction must demonstrate knowledge of mechanical engineering and technology. Participants will demonstrate their understanding through research from reliable sources and effective presentation. Students will drop off their project and documentation at the room and time printed in the Technosphere program.
## Virginia TSA 2021-2022 Technosphere Events and Codes

### MIDDLE SCHOOL PROGRAM

<table>
<thead>
<tr>
<th>CODE</th>
<th>EVENT</th>
<th>NOTES</th>
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<tbody>
<tr>
<td></td>
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<td>power grid. In addition, the house must include a passive solar system, water collection system, and solve one (1) problem that is specific to the area. See National themes and problems for details. Students will drop off their project and documentation at the room and time printed in the Technosphere program.</td>
</tr>
<tr>
<td>A-28*</td>
<td>Prepared Speech</td>
<td>Using the current middle school guide, participants deliver an oral presentation that reflects the theme of the current conference. The theme for the 2022 conference is Discover Your Journey. Students will report to do their speech in the room and time printed in the Technosphere program.</td>
</tr>
<tr>
<td>A-29</td>
<td>ProblemSolving</td>
<td>One team of 2 members per chapter Using the current middle school guide, participants use their skills in problem solving to develop a finite solution to a stated problem provided onsite. Students must provide their own tool box containing the required resources printed in the event brief. Students will report to the designated room in the Technosphere program to do this event.</td>
</tr>
<tr>
<td>A-30*</td>
<td>Promotional Marketing</td>
<td>Using the current middle school guide, participants create/design a three-part TSA Marketing Toolkit that must include items specified in the national Themes and Problems. Students will upload their work to the judges system by 11:59 PM on 4/22/22. Time and location of the semifinal design challenge will be in the Technosphere program.</td>
</tr>
<tr>
<td>A-31*</td>
<td>STEM Animation</td>
<td>Using the current middle school guide, participants use computer graphic tools and design processes to communicate, inform, analyze and/or illustrate a topic, idea, subject or concept. Students will upload their animation and all supporting documents into the judges system by 11:59 PM on 4/22/22. Semifinal presentation/interviews time and location will be in the Technosphere program.</td>
</tr>
<tr>
<td>A-32*</td>
<td>Structural Engineering</td>
<td>Using the current middle school guide, those teams that qualified at fall and regionals will bring their pre-built structures to the conference. Then, semifinalist will build another structure during the time listed in the Technosphere program as well as provide their own supplies. A very limited amount of supplies will be provided by Virginia TSA.</td>
</tr>
<tr>
<td>A-33*</td>
<td>System Control Technology</td>
<td>Using the current middle school guide, participants use a team approach to develop a computer-controlled model solution to a given problem, typically one from an industrial setting. Students will report at the time designated in the Technosphere program for this event.</td>
</tr>
<tr>
<td>A-34</td>
<td>Technology Bowl</td>
<td>One team of 3 members per chapter Using the current middle school guide, participants demonstrate their knowledge of TSA leadership skills and the systems of technology. Each team member must take the test. Testing will take place on 4/29/22 starting at noon. Computer or laptop device will be needed. Semifinals will take place on Saturday afternoon with the time and location of that being in the Technosphere program.</td>
</tr>
<tr>
<td>CODE</td>
<td>EVENT</td>
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</tr>
<tr>
<td>A-35</td>
<td>Technical Design</td>
<td>Five teams per chapter 2 members per team</td>
</tr>
<tr>
<td>A-36</td>
<td>VEX IQ Robotics</td>
<td>Four teams per chapter 2-6 members per team</td>
</tr>
<tr>
<td>A-37</td>
<td>Video Game Design</td>
<td>One team per chapter 2-6 members per team</td>
</tr>
<tr>
<td>A-38</td>
<td>Website Design</td>
<td>One team of 3-6 members per chapter</td>
</tr>
</tbody>
</table>

**NOTE (**): Only those students and/or teams finishing in the top three places at each Regional Fair may enter the same specific events at Technosphere, **unless already qualified during the fall events.**

It is essential that students and advisors routinely check the TSA website (www.tsaweb.org) for updated information about TSA competitive events. This information is found on the website under Competitions/Updates and Clarification. When students participate in any TSA competitive event, they are responsible for knowing of updates, changes, or clarification related to that event.

*Check the Virginia TSA Website for updated versions of the Addendum!*

**Special Awards and Recognition Programs**

| C-1 | Chapter Excellence (Middle) | Chapters may not receive this award two years in a row. |
| C-3 | Community Service Award (Middle) | Virginia Only. One entry per chapter. |
| C-5 | Member of the Year (Middle) | Virginia Only: One individual per chapter. State Officers are not eligible for this award. |
| C-7 | Advisor of the Year (Middle) | Advisors may not receive this award two years in a row. |
| C-9 | Century Award Virginia Only. | Chapters affiliating CAP, or 100+ members. |
| C-11 | Commendation Award Virginia Only | All schools in division affiliated. |

**Note:** Individuals, chapters and/or school divisions applying for recognition awards must submit the required paperwork on or before the postmark deadline for Technosphere registration. They must also register the award within the online registration system.
<table>
<thead>
<tr>
<th>CODE</th>
<th>EVENT</th>
<th>TEAMS</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-1</td>
<td>Animatronics</td>
<td>One team per chapter, 2-8 members per team</td>
<td>Using the current high school guide, participants will produce an animatronics device and display. Students will drop off their project and documentation at the room and time printed in the Technosphere program.</td>
</tr>
<tr>
<td>B-2</td>
<td>Architectural Design</td>
<td>One team per chapter 1-8 members per team</td>
<td>Using the current high school guide, participants develop a set of architectural plans and related materials. Design problem will be provided at <a href="http://tsaweb.org/Themes-and-Problems">http://tsaweb.org/Themes-and-Problems</a>. Students will drop off their project and documentation at the room and time printed in the Technosphere program.</td>
</tr>
<tr>
<td>B-3</td>
<td>Biotechnology Design</td>
<td>One team per chapter 2-8 members per team</td>
<td>Using the current high school guide, participants select a contemporary biotechnology problem that relates to the current year's published area of focus. Design problem will be provided at <a href="http://tsaweb.org/Themes-and-Problems">http://tsaweb.org/Themes-and-Problems</a>. Students will drop off their project and documentation at the room and time printed in the Technosphere program.</td>
</tr>
<tr>
<td>B-4</td>
<td>Board Game Design</td>
<td></td>
<td>Using the current high school guide. Participants that qualified from Regional Fair, develop, build and package a board game that focuses on the subject of their choice that is intellectually challenging. Students will drop off their project and documentation at the room and time printed in the Technosphere program.</td>
</tr>
<tr>
<td>B-5</td>
<td>Chapter Team</td>
<td>One team of 6 per chapter</td>
<td>Using the current high school guide, participants demonstrate an understanding of parliamentary procedure relative to business meetings. Testing will take place on 4/29/22 starting at noon. Computer or laptop device will be needed. Semifinals will be on Saturday.</td>
</tr>
<tr>
<td>B-6</td>
<td>Children’s Stories</td>
<td>One team per chapter 1-6 members per team</td>
<td>Using the current high school guide, a team creates a children's book that illustrates the story. Design problem will be provided at <a href="http://tsaweb.org/Themes-and-Problems">http://tsaweb.org/Themes-and-Problems</a>. Students will drop off their book and documentation at the room and time printed in the Technosphere program.</td>
</tr>
<tr>
<td>B-7</td>
<td>Coding</td>
<td>Two teams of 2 individuals per chapter</td>
<td>Using the current high school guide, participants respond to an annual coding-related design challenge by developing a software program that will accurately address an onsite problem in a specified, limited amount of time. Students will report to the room and time of this event that is printed in the Technosphere program.</td>
</tr>
<tr>
<td>B-8</td>
<td>CAD-Architecture</td>
<td></td>
<td>Using the current high school guide, students must provide all equipment, software and supplies. The event time limit will be four (4) hours. Students will report to the room and time of this event printed in the Technosphere program.</td>
</tr>
<tr>
<td>B-9</td>
<td>CAD-Engineering</td>
<td></td>
<td>Using the current high school guide, students must provide all equipment, software and supplies. The event time limit will be four (4) hours. Students will report to the room and time of this event printed in the Technosphere program.</td>
</tr>
<tr>
<td>B-10</td>
<td>Computer Integrated Manufacturing (CIM)</td>
<td></td>
<td>Using the current high school guide, participants design, fabricate and use Computer Integrated Manufacturing (CIM) to create an original design and build an ice cream scoop. Students will drop off their project and documentation at the room and time printed in the Technosphere program.</td>
</tr>
<tr>
<td>Code</td>
<td>Event Name</td>
<td>Team Composition</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>------------------------------------</td>
<td>--------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>B-11</td>
<td>Cybersecurity</td>
<td>One team of 2-6 per chapter</td>
<td>Using the current high school guide, respond to a cybersecurity challenge by identifying a breach in computer security via “Capture the Flag” games. Participants will have a specific amount of time for the task. How this event is run will depend on the number of team entries.</td>
</tr>
<tr>
<td>B-12</td>
<td>Data Science and Analytics</td>
<td>One team of two members per chapter</td>
<td>Using the current high school guide, participants collect data, conduct an analysis of the data, and make a prediction about the outcome. Students will drop off their project and documentation at the room and time printed in the Technosphere program.</td>
</tr>
<tr>
<td>B-13 *</td>
<td>Debating Technological Issues</td>
<td></td>
<td>Using the current high school guide, teams will be instructed to take the Pro or Con side of the selected subtopic. The theme for 2022 is posted at <a href="http://tsaweb.org/Themes-and-Problems">http://tsaweb.org/Themes-and-Problems</a>. Students will report to the room and time of this event that is printed in the Technosphere program.</td>
</tr>
<tr>
<td>B-14 *</td>
<td>Digital Video Production</td>
<td></td>
<td>Using the current high school guide, participants develop a digital video/film that focuses on the given year’s theme. The theme for 2022 is found at <a href="http://tsaweb.org/Themes-and-Problems">http://tsaweb.org/Themes-and-Problems</a>. Students will upload an URL of their video and all supporting documents to the judges system by 11:59 PM on 4/22/22. Semifinal interviews will take place on Friday of Technosphere, time and place to be announced in the Technosphere program.</td>
</tr>
<tr>
<td>B-15 *</td>
<td>Dragster Design</td>
<td></td>
<td>Using the current high school guide, participants design, produce working drawings for, and build a CO2-powered dragster. Dragsters not meeting building tolerances specified in the Total TSA Guide shall be disqualified and will NOT be raced. Cars will be dropped off at the location printed in the Technosphere program.</td>
</tr>
<tr>
<td>B-16</td>
<td>Engineering Design</td>
<td>One team of 3 to 5 students per chapter</td>
<td>Using the current high school guide, participants work as part of a team to develop a solution to the design challenge which is posted on the National TSA website under <a href="http://tsaweb.org/Themes-and-Problems">http://tsaweb.org/Themes-and-Problems</a>. Students will report to the room and time of this event printed in the Technosphere program.</td>
</tr>
<tr>
<td>B-17 *</td>
<td>Essay on Technology</td>
<td></td>
<td>Using the current high school guide, participants will write a synthesis essay to make insightful connections based on a current technological topic. Participants will be provided with a prompt and a series of two (2) or more articles on a current technological topic. Students will report to the room and time of this event printed in the Technosphere program.</td>
</tr>
<tr>
<td>B-18 *</td>
<td>Extemporaneous Speech</td>
<td></td>
<td>Using the current high school guide, participants give a three to five-minute speech. See national guidelines. Students will report to the room and time of this event that is printed in the Technosphere program.</td>
</tr>
<tr>
<td>B-19</td>
<td>Fashion Design</td>
<td>One team of 2 to 4 members per chapter</td>
<td>Using the current high school guide, participants’ research, design and create a portfolio and wearable prototypes based on the theme for the year. The theme for 2022 is posted at <a href="http://tsaweb.org/Themes-and-Problems">http://tsaweb.org/Themes-and-Problems</a>. Students will drop off their project and documentation at the room and time printed in the Technosphere program.</td>
</tr>
<tr>
<td>B-20 *</td>
<td>Flight Endurance</td>
<td></td>
<td>Using the current high school guide, participants analyze flight principles with a rubber band powered model aircraft. Students build and test their aircraft before the event date. Students bring documentation portfolio with all components, and assembled aircraft for testing to the location printed in the Technosphere program.</td>
</tr>
<tr>
<td>B-21</td>
<td>Forensic Science</td>
<td>One team of 2 members from each chapter</td>
<td>Using the current high school guide, participants will take a written test. Semifinalists will examine a mock crime scene and demonstrate their knowledge of forensic science. Testing will take place on 4/29/22 starting at noon. Semifinalist will report to the place and time listed in the Technosphere program.</td>
</tr>
<tr>
<td>B-22</td>
<td>Future Technology Teacher</td>
<td>Three individuals per chapter</td>
<td>Using the current school guide, participants create a screencast webinar that teachers can reference to learn a new technology that can be used in a lesson. Semifinalists communicate their design process through an interview. Students will upload all components of their screencast webinar and all supporting documents to the judges system by 11:59 PM on 4/22/22. Semifinalist will report to the place and time listed in the Technosphere program.</td>
</tr>
<tr>
<td>B-23</td>
<td>Geospatial Technology</td>
<td>Two teams per chapter. Maximum of 5 members per team.</td>
<td>Using the current high school guide, participants interpret geospatial data in multiple formats and formulate projections about the area of interest in response to the annual theme. The theme for 2022 is posted at <a href="http://tsaweb.org/Themes-and-Problems">http://tsaweb.org/Themes-and-Problems</a>. Students will drop off their project and documentation at the room and time printed in the Technosphere program.</td>
</tr>
<tr>
<td>B-24</td>
<td>IT Fundamentals</td>
<td>Two individuals per chapter</td>
<td>Using the current high school guide, demonstrate understanding of and expertise in basic informational technology concepts by taking an online exam. Testing will take place on 4/29/22 beginning at noon.</td>
</tr>
<tr>
<td>B-25*</td>
<td>Music Production</td>
<td></td>
<td>Using the current high school guide, participants produce an original musical piece that is designed to be played during the national TSA conference opening or closing general session. Students will upload their work to the judges system by 11:59 PM on 4/22/22. Semifinalist will report to the place and time listed in the Technosphere program.</td>
</tr>
<tr>
<td>B-26</td>
<td>On Demand Video</td>
<td>One team of 2-12 members per chapter</td>
<td>Using the current high school guide, participants write, shoot, and edit a sixty (60) second video during the conference. Participants have 36 hours to complete the entire video. Students will be able to go into the judges system on 4/29/22 at 6 AM to see the prompt. The team will then upload their video shot onsite by 6 PM on 4/30/22.</td>
</tr>
<tr>
<td>B-27*</td>
<td>Photographic Technology</td>
<td></td>
<td>Using the current high school guide, participants capture images and process photographic and digital prints that depict the current year’s theme. The theme for 2022 is posted at <a href="http://tsaweb.org/Themes-and-Problems">http://tsaweb.org/Themes-and-Problems</a>. Students will upload into the judges system by 11:59 on 4/22/22. Semifinalist problem will take place on Saturday of Technosphere. Time will be posted in the Technosphere program.</td>
</tr>
<tr>
<td>B-28*</td>
<td>Prepared Presentation</td>
<td></td>
<td>Using the current high school guide, participants deliver an oral presentation, using a digital slide deck, on a topic that will be given to the participant at the time of signup for their time to participate. Students will see the Technosphere program for sign-up times and location and presentation times.</td>
</tr>
<tr>
<td>B-29</td>
<td>Principles of Technology (Virginia Only)</td>
<td>One team per chapter 2-5 members per team</td>
<td>Teams that register by the Technosphere deadline will receive detailed information about what they will need for this event. See Page 33 for more information.</td>
</tr>
</tbody>
</table>
### Virginia TSA 2021-2022 Technosphere Events and Codes

#### HIGH SCHOOL PROGRAM

<table>
<thead>
<tr>
<th>Code</th>
<th>Event Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-30*</td>
<td>Promotional Design</td>
<td>Using the current high school guide, participants use computerized graphic communication layout and design skills in the production of a promotional resource for TSA. The theme for 2022 is posted at <a href="http://tsaweb.org/Themes-and-Problems">http://tsaweb.org/Themes-and-Problems</a>. Students will upload into the judges system by 11:59 on 4/22/22. Semifinalist design challenge will take place on Friday evening of Technosphere. Time to be announced in Technosphere program.</td>
</tr>
<tr>
<td>B-31</td>
<td>SciVis</td>
<td>Two teams per chapter 2-8 members per team</td>
</tr>
<tr>
<td>B-32</td>
<td>Software Development</td>
<td>One team per chapter 2-6 members per team</td>
</tr>
<tr>
<td>B-33</td>
<td>STEM Careers (Virginia Only)</td>
<td>Three individual members per chapter</td>
</tr>
<tr>
<td>B-34*</td>
<td>Structural Engineering and Design</td>
<td></td>
</tr>
<tr>
<td>B-35*</td>
<td>System Control Technology</td>
<td></td>
</tr>
<tr>
<td>B-36</td>
<td>Technology Bowl</td>
<td>One team of 3 per chapter</td>
</tr>
<tr>
<td>B-37</td>
<td>Technology Problem Solving</td>
<td>One team of two per chapter</td>
</tr>
<tr>
<td>B-38*</td>
<td>Transportation Modeling</td>
<td></td>
</tr>
</tbody>
</table>
### Video Game Design

Using the current high school guide, participants develop a game that focuses on the posted theme posted on the National website. The game should be interesting, exciting, visually appealing, and intellectually challenging, with high artistic, educational, and social value. Students will upload their work to the judges system by 11:59 PM on 4/22/22. Semifinalist will report to the place and time listed in the Technosphere program.

### Webmaster

One entry per chapter 3-5 members per team

Using the current high school guide, participants design a website that follows the design brief found at the following Link: [http://tsaweb.org/Themes-and-Problems](http://tsaweb.org/Themes-and-Problems). Students will upload their work to the judges system by 11:59 PM on 4/22/22. Semifinalist will report to the place and time listed in the Technosphere program.

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**NOTE (*)**: Only those students and/or teams finishing in the top three places at each Regional Fair may enter the same specific events at Technosphere, unless already qualified during the fall events.

It is essential that students and advisors routinely check the TSA website (www.tsaweb.org) for updated information about TSA competitive events. This information is found on the website under Competitions/Updates and Clarification. When students participate in any TSA competitive event, they are responsible for knowing of updates, changes, or clarification related to that event.

*Check the Virginia TSA Website for updated versions of the Addendum.*

### Special Awards and Recognition Programs

<table>
<thead>
<tr>
<th>Code</th>
<th>Award Name</th>
<th>Eligibility Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>C-2</td>
<td>Chapter Excellence (High)</td>
<td>Chapters may not receive this award two years in a row.</td>
</tr>
<tr>
<td>C-4</td>
<td>Community Service Award (High)</td>
<td>Virginia Only: One entry per chapter</td>
</tr>
<tr>
<td>C-6</td>
<td>Member of the Year (High)</td>
<td>Virginia Only. One individual per chapter. State Officers are not eligible for this award.</td>
</tr>
<tr>
<td>C-8</td>
<td>Advisor of the Year (High)</td>
<td>Advisors may not receive this award two years in a row.</td>
</tr>
<tr>
<td>C-10</td>
<td>Century Award Virginia Only</td>
<td>Chapters affiliating CAP, or 100+ members.</td>
</tr>
<tr>
<td>C-12</td>
<td>Commendation Award Virginia Only</td>
<td>All schools in division affiliated.</td>
</tr>
</tbody>
</table>

Note: Individuals, chapters and/or school divisions applying for recognition awards must submit the required paperwork on or before the postmark deadline for Technosphere registration. They must also register the award within the online registration system.
OVERVIEW
Participants develop a portfolio containing maps, data, and appropriate documentation, that demonstrates their abilities to use geospatial data to develop solutions to environmental and social issues, and present the solutions.

PURPOSE
Participants are encouraged to explore and gain an understanding of how geospatial data and related technology are used to prepare a profile of a geographic area of interest and solve a problem in a spatial context. They demonstrate an understanding of geospatial technology software, data acquisition and its use in developing solutions.

ELIGIBILITY
Participants are limited to one team of 2-5 members per chapter.

TIME LIMITS
A. Entries must be started and completed during the current school year.
B. Teams will sign up to present their solutions to the judges.

ATTIRE
Business Casual dress as described in Competitive Events Attire is the minimum requirement.

PROCEDURE
A. Participants check in their entries at the time and place stated in the conference program.
B. Entries are reviewed by evaluators.
C. Participants are provided with the problem and are allowed two hours to complete their entry.
D. A presentation file of the solution is saved as a PDF.
E. All winning entries, digital and hard copy, become the property of TSA, Inc.

REGULATIONS
A. Participants supply their own computer work station with USB drive, power strip/surge protector, and software. A laptop computer is recommended. Anyone who does not provide these items will not be allowed to compete in the on-site event.
B. The portfolio items [Maps, data and documents] must follow these guidelines:
   1. The portfolio items are developed in color on white 8½" x 11" paper.
   2. The notebook items must incorporate the selected theme. The content of the notebook items must be appropriate for viewing at the Virginia TSA conference. The title page with the event title, the title of the project and, the conference city, state, and the year; one (1) page. The Table of Contents provides location of documents and maps.
   3. Maps, data and documents need to be collected abiding by the parameters listed below. The name of the software used must be included,

1 Documents – Uploaded to the judges system.
   a. Data dictionary for the below GIS files is required. The data dictionary should be an excel spreadsheet that includes, data, provider, and availability of metadata (yes or no). See example below.
b. Map Analysis – A document should accompany each map with an explanation of the map and methods used to create the map.
c. Explanation of the solution and how it was developed.

2. Files uploaded to the judges system must be a PDF or an URL
   a. Maps can either be exported as jpeg from the GIS software or the file structure can be setup so that the judges can open the project. Maps must be student generated with all appropriate map parts.
   b. Documents that explain the project and maps.

3. Data types
   • Location map of your project in relationship to state
   • Elevations
   • Watershed identification (regional to local)
   • Demographics and its effect on land use within the area
   • Location factors that impact the issue presented
   • Any local unusual geographic attributes, i.e. karsts, caves, lakes
   • Slope and aspect

4. The portfolio is identified using only the participant’s conference identification number.

C. All on-site work is developed, saved as a PDF file on an external drive (USB flash drive) and submitted using only the team’s conference identification number.
D. Solutions will be presented as a PowerPoint presentation via zoom and teams will be interviewed by evaluators for approximately five (5) minutes.

EVALUATION
Evaluation is based on interpretation of the pre-conference design brief, the execution of a thorough, relevant, and understandable solution/presentation, submission of requested materials, solution for the on-site problem, and interview.

STEM INTEGRATION
This event has connections to the STEM standards noted below. Please refer to the STEM integration section of this guide.
Science, Technology, Engineering, Mathematics

PRIMARY LEADERSHIP SKILLS
Leadership skills promoted in this event:
• COMMUNICATION — Students will organize and produce a well-written notebook
• CREATIVE THINKING — Students visualize an issue to develop problem solutions
• PROBLEM SOLVING – Students identify and acquire data needed to develop solutions.
• EVALUATION — Students review and critique work throughout the development of the project.

Suggested leadership lessons: Evaluation Imagination and Seven Components Of Effective Evaluation

Additional leadership skills promoted in this event: DECISION MAKING, EVALUATION, organization, teamwork

TSA AND CAREERS
This competition has connections to one or more of the career areas featured in the TSA AND CAREERS section of this guide. Use The 17 Career Clusters chart and the TSA Competitions and Career Clusters grid as resources for information about careers.

CAREERS RELATED TO THIS EVENT
Programming and Software Development
Logistics Planning and Management Services
Geospatial Technology Design Brief 2021-22 Coming soon
Principles of Technology Challenge
(Virginia ONLY Special Event)

Overview: The Principles of Technology Challenge is a team event in which students demonstrate their knowledge of physics, technology and mathematics. The problems used in the competition stem from the principles and concepts embedded in Principles of Technology I and II (9811 and 9812). Each team of students will work as a group to solve a series of problems.

Purpose: The purpose of the contest is to recognize high school students who have studied the Principles of Technology courses and are able to apply their knowledge to real world mechanical, electrical, thermal and fluidics problems.

Eligibility: Entries are limited to one (1) team per TSA chapter. The team must consist of two (2) to five (5) chapter members.

Time Limits: Each team will have two (2) hours to complete the event.

Procedure: A) Participants must register for the event in accordance with procedures established for Technosphere.
B) The team members take the written test together and provide one answer sheet.
C) After completing the written test, each team will be given a series of problems to solve.

Equipment: Each team must provide the following items of equipment for the onsite problem:

- a. Hand held calculator with no programs installed (may be 4 function scientific or graphing)
- b. Spring scales
- c. Protractors
- d. Principles of Technology student resource guide or any locally approved high school physics textbook
- e. Weight sets
- f. Lead sets
- g. Power supplies
- h. Digital multimeter
- i. Specific heat unknown samples
- j. Thermometers
- k. Graduated cylinders

Regulations: Each team will work independently without assistance from evaluators, teachers, or observers.

Evaluation: Each team’s written test score and score for the solution of the problem will be averaged to determine the final score.
STEM Careers High School:

In this event, a student will complete a thorough investigation one of the many types of engineering and what an internship would look like in that particular career. The student will then take that particular career in a specific field of engineering, and research and document that. They will then make a video describing their documentation, making reference to STEM skills that they would need for this career.

Regulations

1. Title Page with career and what part of engineering in falls under.
2. Table of contents
3. Description of a STEM-related job shadow/internship experience and what the outcome of the experience would look like, including STEM skills; three (3) single-sided pages
4. Description of research about the STEM skills selected and developed, and the related STEM career pathway; two (2) single-sided pages
5. Skill demonstration video. The video will be no more than 3 minutes in length.

Evaluation

Evaluation will be based on the participant’s documentation and video.

The Engineering fields in which careers can be chosen are:

1. Aerospace Engineering
2. Biomedical Engineering
3. Chemical Engineering
4. Civil Engineering
5. Electrical Engineering
6. Mechanical Engineering

The event will be due by April 29, 2022 to the judges system
Special Awards and Recognition

Virginia TSA provides recognition for Middle and High School competition in the following events. Applications for these awards can be found on the Virginia TSA website under Forms & Publications.

C - 1 and C - 2
Chapter Excellence: Virginia TSA uses the national criteria and recognizes three outstanding Middle School Level TSA Chapters and three outstanding High School Level TSA Chapters at Technosphere each year. Chapters may not receive this award two (2) years in a row.

C - 3 and C - 4
Community Service: Virginia TSA recognizes three Middle School Level TSA Chapters and three High School Level TSA Chapters at Technosphere each year.

C - 5 and C - 6
Member of the Year: Virginia TSA recognizes three outstanding Middle School Level TSA students and three outstanding High School Level TSA students at Technosphere each year. State officers are not eligible for this award.

C - 7 and C - 8
Advisor of the Year: Virginia TSA uses the national criteria and recognizes three advisors from Middle School Level and High School Level TSA Chapters at Technosphere each year. Advisors may not receive this award two (2) years in a row.

C - 9 and C - 10
Century Award: Virginia TSA recognizes outstanding Middle School Level TSA Chapters and High School Level TSA Chapters that affiliate 100 or more students.

C - 11 and C - 12
Commendation Award: Virginia TSA recognizes outstanding school divisions that affiliate all secondary school technology education programs with the Technology Student Association at Technosphere each year.
Virginia TSA Chapter Excellence Award Application
(All Applications Must be Postmarked by the Technosphere Registration Deadline and Registered online in the Registration System)

School Name:__________________________________________________________

School Address:________________________________________________________

School Phone Number:___________________________________________________

TSA Advisor:________________________________________________________________

TSA Advisor’s E-mail Address:______________________________________________

General Information

Number of members in chapter: __________________

Number of students in technology education courses: _________________

Number of years the chapter has been affiliated with TSA: ________________

Please type all answers to the following questions on a separate sheet and attach to application.

Chapter Involvement

1. How often does your chapter meet?
2. How are your chapter’s scholastic and educational activities incorporated into daily technology education curriculum?
3. Please list the number of students that attended the National TSA Conference the last 3 years, including the competitive events entered and awards and recognition earned.
4. List your chapter’s activities that deal with inter-chapter participation.

Chapter Fund Raising Projects

1. List your chapters’ fund raising projects and note the purpose for raising the money. If chapter is not allowed to participate in fund raising, please list how monies are raised.

Leadership Activities

1. If your chapter has been involved in leadership activities not previously mentioned, discuss each activity.
2. What is your chapter’s involvement with TSA alumni?

_________________________________________  _____________________________
Chapter President’s Signature  Chapter Advisor’s Signature
C - 1 or C – 2

CHAPTER EXCELLENCE

JUDGE'S OFFICIAL RATING SHEET
Middle School/LEVEL I or High School/Level II (Circle one)

<table>
<thead>
<tr>
<th>ENTRANT'S ID</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>JUDGING CRITERIA</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Involvements.................40 points max.</td>
</tr>
<tr>
<td>Fund-Raising .................10 points max.</td>
</tr>
<tr>
<td>Leadership Activities ..........20 points max.</td>
</tr>
<tr>
<td>Resume .........................30 points max.</td>
</tr>
<tr>
<td>Organization of facts in an orderly manner (16 points)</td>
</tr>
<tr>
<td>Neatness (8 points)</td>
</tr>
<tr>
<td>Appropriate information (6 points)</td>
</tr>
<tr>
<td>Total ..........................100 points max.</td>
</tr>
</tbody>
</table>

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

*Judge's Signature*
Virginia TSA Community Service Award Application

(All Applications Must be Postmarked by the Technosphere Registration Deadline and Registered online in the Registration System)

School Name: 

School Address: 

School Phone Number: 

TSA Advisor: 

TSA Advisor’s E-mail Address: 

List all Community Service Activities that your chapter has participated in during the current school year. Include the specific date of each event.

Event: Date:

1) 

2) 

3) 

4) 

5) 

6) 

7) 

8) 

9) 

Total hours spent working on Community Service activities: 

On a separate sheet (maximum 3 pages), provide a typed description of each Community Service activity that is listed above.

Chapter President’s Signature ____________________________ Chapter Advisor’s Signature ____________________________
Virginia TSA Member of the Year Application

Applicants must be enrolled in a Technology Education course and/or have completed a middle or high school Technology Education course plus be a Virginia TSA member.

(All Applications Must be Postmarked by the Technosphere Registration Deadline and Registered online in the Registration System)

(State officers are not eligible for this award.)

Member’s Name: ________________________________

Member’s School Name: ________________________________

School’s Address: _______________________________________

School’s Phone: _________________________________________

Current Year in School and GPA: ________________________________

List the name of each Technology Education course & state course code number that you have been enrolled in at the middle and/or high school level:

1. ___________________________________________________
2. ___________________________________________________
3. ___________________________________________________
4. ___________________________________________________
5. ___________________________________________________

Number of years in TSA: __________________________________

Awards won, offices held, and other accomplishments within TSA:

1. ___________________________________________________
2. ___________________________________________________
3. ___________________________________________________
4. ___________________________________________________
5. ___________________________________________________

Awards won, offices held, extracurricular activities, and other accomplishments outside of TSA:

1. ___________________________________________________
2. ___________________________________________________
3. ___________________________________________________
4. ___________________________________________________
5. ___________________________________________________
Virginia TSA Member of the Year Application

Applicants must be enrolled in a Technology Education course and/or have completed a middle or high school Technology Education course plus be a Virginia TSA member.

(All Applications Must be Postmarked by the Technosphere Registration Deadline and Registered online in the Registration System)

(State officers are not eligible for this award.)

In a brief type written essay (maximum 2 pages), please explain why this student deserves the award.

........................................................................................................................................................................

Nominator Information:

Member must be nominated by a Virginia TSA chapter advisor. State officers are not eligible for this award.

Nominated by: ____________________________________________________________

School Name: ____________________________________________________________

School Address: __________________________________________________________

Nominator’s Email Address: ________________________________________________

Nominator’s Phone number: ________________________________________________

Signature of Nominator: ____________________________________________________
Advisor of the Year

1. Cover sheets and additional materials are not accepted.
2. The Nominated Advisor must be nominated by two (2) chapter Advisors.
3. Only one (1) application is needed but it must be signed by the two (2) nominating chapter Advisors.
4. Include information from the last three (3) years only.
5. Advisors may not receive this award two (2) years in a row.

Nominating Advisors Information
Name: ____________________________________________
School: __________________________________________
Principal’s Name: 
School Address: 
City/State/Zip: ____________________________________
Phone: ____________________________ Numbers of years teaching: __________

Name: ________________________________
School: ________________________________
Principal’s Name: 
School Address: 
City/State/Zip: ___________________________ 
Phone: ____________________________ Numbers of years teaching: __________

Nominated Advisor Information
Name: ________________________________
School: ________________________________
Principal’s Name: 
School Address: 
City/State/Zip: ___________________________ 
Phone: ____________________________ Numbers of years teaching: __________

Technology Education courses currently teaching:

________________________________________________________________________
Promoting TSA

1. When does the TSA Chapter meet?

________________________________________________________________________

________________________________________________________________________

2. Fill in the table showing the number of students the advisor has taught and advised during the past three years.

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of students enrolled in classes</th>
<th>Number of TSA Members</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<tr>
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<td></td>
</tr>
</tbody>
</table>

3. Indicate the number of officer candidates that the advisor has sponsored for positions beyond the chapter level.

____________________ Regional  ____________________ State  ____________________ National

4. List the calendar years in which the advisor has attended any state or nationally sponsored conferences during the last three years.

<table>
<thead>
<tr>
<th>State</th>
<th>National</th>
</tr>
</thead>
</table>

5. List any publicity, such as radio, television, and newspaper coverage, that the chapter has received.

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________

Chapter Accomplishments

1. List any major chapter projects that the chapter has completed over the last three years.

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
Facilitation Skills

1. Describe how students are introduced to the Technology Student Association in the technology program.

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

2. List forms of recognition offered to chapter members.

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

Leadership Skills

1. Describe the advisors participation in TSA at the regional level.

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

2. Describe the advisors participation in TSA at the state level.

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________

3. Describe the advisors participation in TSA at the national level.

________________________________________________________________________
________________________________________________________________________
________________________________________________________________________
4. List other organizations and activities in which the advisor is involved.

I certify that the claim and information reported on behalf of the advisor are true and accurate.

Nominating Advisor ___________________________ Date _________________ 2nd

Nominating Advisor ___________________________ Date: __________
# ADVISOR OF THE YEAR

**JUDGE'S OFFICIAL RATING SHEET**
Middle School/LEVEL I or High School/Level II (Circle one)

## ENTRANT'S ID

## JUDGING CRITERIA

### Promoting TSA

- Number of officer candidates advisor has sponsored (5 point)
- Number of years advisor has attended state/national conference (5 point)
- Publicity that the chapter has received (5 point)

### Chapter Accomplishments

- Major chapter projects completed (20 points)

### Facilitation Skills

- How is TSA introduced to your class (5 points)
- How do TSA members receive recognition (5 points)

### Leadership Skills

- Participation in TSA at local/regional level (15 points)
- Participation in TSA at state/national level (15 points)

### Professional & Civic Organizations

### Neatness

### Spelling & Grammar

### Total

---

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

*Judge's Signature*
VIRGINIATSA CENTURY

AWARD APPLICATION

(All Applications Must be Postmarked by the Technosphere Registration Deadline and Registered online in the Registration System)

Those schools that affiliate under the Chapter Affiliation Plan, affiliate 100 or more students individually or the total technology education program enrollment are eligible to apply for and receive recognition. Applicants must apply by the deadline listed in the Technosphere registration packet.

Name of School: ________________________________________________________________
Address: ______________________________________________________________________
______________________________________________________________________________
School Division: __________________________________________________________________
Advisor Name: __________________________________________________________________
School Phone: __________
Level: (Circle one)
Middle - High Date: __________

This is to certify that __________________________ school has affiliated ________________ students with the Technology Student Association. We believe that we are eligible to receive the Century Award for affiliating 100% (or 100 members) with the Technology Student Association.

________________________________________  Date ______  __________________________  Date ______
Chapter President  Chapter Vice President

________________________________________  Date ______  __________________________  Date ______
Chapter Advisor  School Principal
VIRGINIATSA

COMMENDATION AWARD

(All Applications Must be Postmarked by the Technosphere Registration Deadline and Registered online in the Registration System)

School divisions that affiliate all secondary school technology education programs with the Technology Student Association are eligible to apply for the Commendation Award. The Commendation Award provides recognition to those school divisions that actively support the establishment and maintaining of TSA chapters.

School Division Name: ____________________________________________________________

Mailing Address: ________________________________________________________________

______________________________________________________________________________

CTE Director: ________________________________________________________________

____________________________________ Technology Supervisor: ______________

____________________________________ Telephone Number: - - -

Number of High Schools in Division: ____________________________________________

Number of Middle Schools in Division: ____________________________________________

This is to verify that all schools in the__________________________________________ school division have organized and affiliated with the Technology Student Association for the current school year. This represents all of the middle and high school schools within the division. A list of the schools and chapter advisors names are attached for your review. A school division representative will attend the Technosphere awards program to receive the school division award.

__________________________________________________
Local Technology Education Coordinator

__________________________________________________
Local Career and Technical Education Director