

3D Modeling: STEM Toy

Objective:

Students will use 3D Modeling software to design a STEM related toy intended for use by a child ages 4-6.

Number of Entries per Chapter: 3 entries per chapter

Guidelines:

Students may use any 3D Modeling software to design a STEM-related toy.

The toy should be designed for children ages 4-6.

The toy may be a single piece or multiple pieces.

The student will create a 30"x20" digital poster for the design. This may present either portrait or landscape. The poster must include the following:

- The name of the product created
- The purpose of the product
- Use of product
- At least 4 pictures of the 3D model of the toy.
- How the product could be produced (additive and/or subtractive manufacturing of any traditional, Computer Numerical Control (CNC), 3D printing, or laser technology available)
- A flyer for selling the product, including a selling price, (not to exceed 8" X 10" on the poster)

Process for Submission:

A one page PDF, set up as 20"x30", will be uploaded into EMS by 11:59 PM on October 12, 2020

Evaluation:

CRITERIA	Minimal performance 1-4 points	Adequate performance 5-8 points	Exemplary performance 9-10 points
Theme	The effort is basic, with only a loose association to the product theme.	The effort adequately addresses the product theme.	The effort to address the product theme exceeds expectations (STEM toy for ages 4-6)

Required Components	Four or more components are missing from the display	Two or three of the required components are missing from the display.	The following items are included on the poster: name of the product, description and purpose, 4 pictures of the 3D model, potential production method and a flyer
Process Description	Process description is poorly presented and does not represent potential manufacturing processes	Process description adequately represents potential manufacturing processes	Process description exceptionally represents potential manufacturing processes
Sales Flyer	Sales flyer minimally attempts to sell the manufactured product.	Sales flyer is too large or does not adequately attempt to sell the product.	Sales flyer, which does not exceed 8"x10," is included and adequately attempts to sell the product.
3D Models (x2)	The 3D model drawing is poorly executed with key elements missing.	The 3D model is included, but components are missing from the drawing.	Accurate 3D model drawings are included in the poster.

Architectural Design

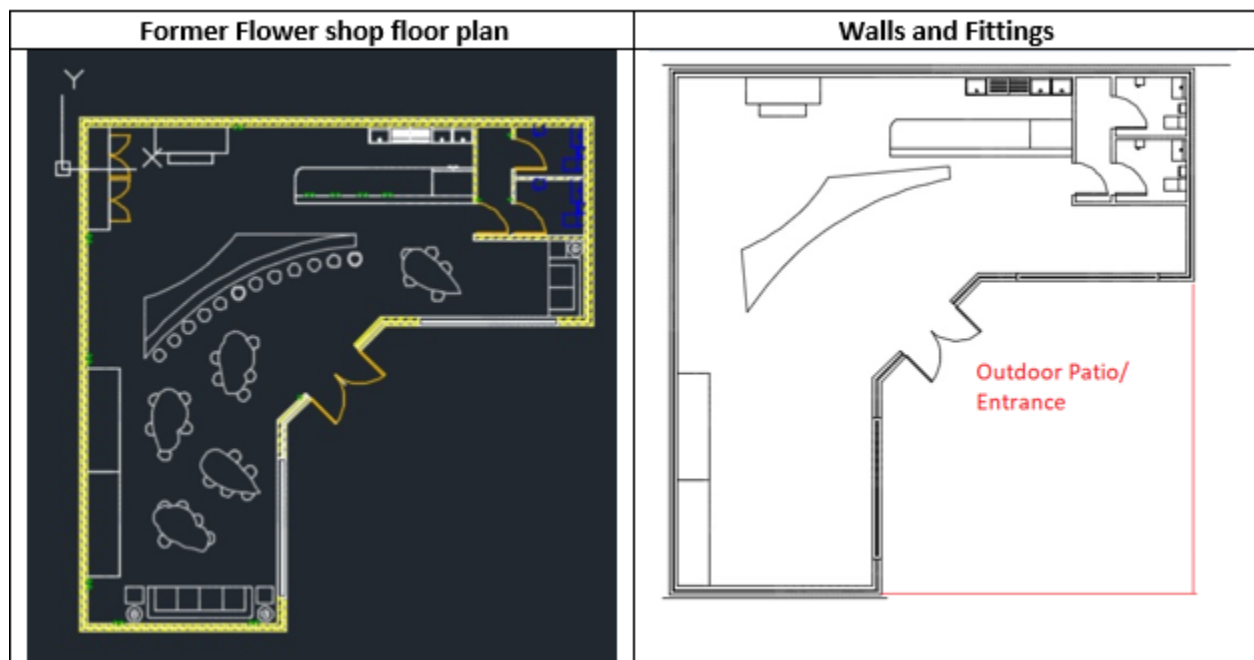
Design Challenge Background:

After studying various coffee shop designs in your local area, students use technology to create their own coffee shop that fits the criteria referenced below.

Objective:

You have just leased a space in a strip mall in the hopes of opening a coffee shop. Your location is 1600 square feet including the outdoor patio and you are located at the end of the mall so the patio can be utilized.

After studying local coffee shops, their layout, the equipment/appliances they use, and what they are doing for social distancing, redesign the flower shop design below expressing your vision for your coffee shop. You will be required to create a restaurant name, submit a floor plan that includes furnishings and all equipment necessary for a coffee shop (including your patio), a 3D rendering of the interior, and a social distance plan. Your social distance plan should consider placement of all interior/exterior furnishings, as well as any promotional items you would include about safety practices.



Number of Entries per Chapter: Individual event, 3 entries per chapter

Guidelines:

1. The floor plan must meet the criteria listed in the design brief and must include dimensions of the outside of the structure and any inside rooms. Proper labeling is required.
2. The rendering must include all items in the floor plan.
3. The coffee shop name should be submitted on the top of the floor plan and rendering. Your name should NOT include the school name or students' names.
4. The social distance plan should include both descriptive pictures and written explanation and should be no more than 4 pages or slides.

Process for Submission:

All files must be posted in one pdf file to include the coffee shop name, floor plan, the rendering, and the social distancing plan.

Evaluation:

Evaluation of Floor Plan (100 points):

CRITERIA	Minimal performance 1-4 points	Adequate performance 5-8 points	Exemplary performance 9-10 points
Theme	The effort is basic, with only a loose association to the product theme	The effort adequately addresses the product theme	The effort to address the product coffee shop theme exceeds expectations
Research	There is little evidence of research in the floor plan.	There is some evidence of research in regard to coffee shops, equipment/appliances used, and layouts.	Research regarding coffee shops, equipment/appliances used, and layouts is extremely evident in the design.
Layout walls and openings	The layout may be missing some of the necessary rooms needed to fully run a coffee shop.	The layout is good. All necessary rooms are present. It meets the minimum requirements for a coffee shop and considers the original flower shop design.	The layout is logical and functional and creative. It has all needed rooms for a coffee shop and adheres to the exterior size of the original flower shop design. It exceeds all needs of patrons.
Layout interior	Some of the components needed in a basic coffee shop are missing.	The layout appears functional and meets most of the needs of the patrons. Most items are included in the design.	The layout is logical and functional and creative. It exceeds all needs of patrons. All equipment/appliances needed for success are included.
Use of space	Some room sizes may not be adequate.	Room sizes are adequate and most of	All rooms and patio are the proper size and use

	There may be dead space on insufficient space or room or function. Square footage may be wrong.	the space used makes sense. Measurements were considered.	of space is maximized. It is clear that the designer(s) configured the square footage properly.
Social Distancing	There was very little research or value placed on social distancing.	The designer did some research and there is evidence of social distancing in the design.	The social distancing objective is apparent, and it is apparent the designer(s) researched social distancing rules and considered safety of the patrons.
Food Safety Guidelines	There is little consideration in regard to food safety.	Most food safety guidelines are addressed.	The design reflects food safety guidelines and research of such is prevalent.
Patio	The design uses some of the outdoor area.	The design uses all of the outdoor area and social distancing was considered.	The design reflects superior use of the outdoor area, including social distancing practices.
Quality	Some dimensioning and labeling are missing.	Most of the rooms are properly dimensioned and most of the areas are dimensioned.	All dimensioning and labeling or rooms are correct.
Coffee shop name	The name is OK and it is indicated somewhere on the design.	The name is good and is placed as indicated on the project criteria.	The name is extremely creative, reflecting a coffee theme and is placed as indicated on the project criteria.

Coffee shop Rendering (50 points):

CRITERIA	Minimal performance 1-4 points	Adequate performance 5-8 points	Exemplary performance 9-10 points
Model interior	Too many furnishings, cabinets or other interior items missing.	The rendering shows most of the items included on the floor plan but may be missing items or items may be in the wrong location.	The rendering accurately depicts all furnishings, cabinets or other interior items shown on the floor plan.
Required Components	Four or more components are missing from the display.	Two or three of the required components are missing from the display.	All required components are clearly labeled and included in the pdf
Appearance	Some color, but is doesn't pop or it could be neater.	Use of color, but choices could be better.	There is a theme present in the color choice. It is appealing and it "pops." It is very neat.

Theme	The rendering is lacking appeal.	The rendering is acceptable.	The rendering presents a coffee shop “feel.” It is comfortable and inviting.
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Social Distance Plan (50 points):

CRITERIA	Minimal performance 1-4 points	Adequate performance 5-8 points	Exemplary performance 9-10 points
Research	There is little evidence of research.	There is some evidence of research.	Research regarding social distancing rules in food establishments is extremely evident.
Traffic Flow	Many considerations for distancing were missed in the flow of patrons.	The movement of patrons throughout the coffee shop makes sense and follow most guidelines for social distancing.	The movement of patrons throughout the establishing is clear, creative, and incorporates social distancing practices.
Social Distancing Signs/Indications	Many missing or unclear signs.	Some of the signs may have been missing or not clear.	All social distancing signs have clear indication of purpose an all necessary signs were included in the plan.
Social Distancing Signs/Indications - aesthetics	Some color, but signs may not “pop.” Graphics may not have been used.	There is use of color in the signs. The font choice is adequate, and some graphics are used.	Great color choice in signs. They fit well with the themes used in the coffee shop design. The font is well sized and balanced. Graphics are included.

Computer Aided Drafting

Objective:

Participants will demonstrate their understanding of CAD concepts as they create a 2D and 3D drawing of a design challenge.

Number of Entries per Chapter: 3 per chapter

Guidelines:

Students will design a trophy and produce a 3 view drawing with an isometric drawing.

The drawing must be created using proper CAD techniques

The multiview drawing must include dimensions

The three-view drawing and the isometric drawing will be submitted as a single page document.

The page must include a title block. The title block must include: the title of the drawing, name of the event (TechDays2020), scale of the drawing, the date the drawing was created.

Process for Submission:

The single page document will be converted to a PDF file and uploaded to the EMS system by the competition deadline.

Evaluation:

CRITERIA	Minimal performance 1-4 points	Adequate performance 5-8 points	Exemplary performance 9-10 points
Design Creativity	The effort is basic, with little creativity in the design.	The effort adequately shows creativity in the design of the trophy..	The effort to design the trophy exceeds expectations

Geometry and Drawing Orientation	Views, constructive geometry, and orientation have not been selected and used in the submission	Most of the views, constructive geometry, and orientation have been selected and usage is correct and in the proper layout	All views, constructive geometry, and orientation have been selected and usage is correct and in the proper layout
Line Conventions	Proper line types have not been used throughout the drawing process.	Most of the proper line conventions are used with one or two mistakes.	All the correct line types are used in the correct locations.
Dimensioning	Many of the necessary dimensions are missing or placed incorrectly.	Most of the necessary dimensions are included and correctly placed.	All the necessary dimensions are included and correctly placed.
Title Block	The title block is missing or is missing three or more of the required components	The title block is present but missing one or two of the required elements	The title block is present and contains all required elements: title of the drawing, name of the event (TechDays2020), scale, date

Microcontroller

Objective:

Participants program a microcontroller to complete a task that would be helpful in combating the spread Of COVID 19. In this challenge you will explain and demonstrate your microcontroller program.

Number of Entries per Chapter: One team per chapter (at least two members)

Guidelines:

1. Entries are limited to one entry total per chapter.
2. Any microcontroller (raspberry PI, Arduino, microbit, VEX, EVA etc.) may be used.
3. Any programming language may be used. (block, python, java, Vex Code, etc.)
4. You will submit a video of your microcontroller running it's code.
5. Your video should show not only what your microcontroller does, but include an explanation of how your code is working to perform those actions
6. Your video should explain how your code meets the theme.
7. Creative and innovative uses of programming or sensors is encouraged.
8. The program you created and used in your video needs to be uploaded, with all comments or notes included.
9. A high quality entry effectively explains and documents how the microcontroller design and sensors are utilized for a program that is effective.

Process for Submission:

Video and code are to be uploaded into EMS

Evaluation:

Microcontroller Scoring Rubric				
Criteria	Minimal Performance	Adequate Performance	Exemplary Performance	Points
	1-4 points	5-8 points	9-10 points	
Code Quality	The logic of the code cannot be	The logic of the code is	The logic of the code is easy to	

	followed or is difficult to follow; no comments or very few comments are present in the code.	sometimes easy to follow by reading through submitted source files; some comments are present, but comments are not always present where necessary.	follow by reading through the submitted source files; sections where logic may be unavoidably difficult to follow are commented appropriately.	
Appropriate Solution to the Theme	The solutions do not appropriately meet the needs of the problem theme.	The solutions attempt to meet the needs of the problem theme.	The solutions are appropriate to meet the needs of the problem theme.	
Creative/Innovative use of Sensors	The code does not take advantage of appropriate sensors to optimize the code/microcontroller's performance.	The code somewhat takes advantage of appropriate sensors to optimize the code/microcontroller's performance.	The code takes advantage of appropriate sensors to optimize the code/microcontroller's performance.	
			Total points:	

Pin Design

Objective:

Participants design a lapel pin that can be used to promote Georgia TSA at legislative events and that members can trade at the TSA National Conference Mixer.

Number of Entries per Chapter: Up to 5 entries per chapter

Guidelines:

The design must meet the following criteria:

- Any and all use of the TSA emblem must abide by TSA Trademark Policies as outlined in the National TSA website at www.tsaweb.org. You cannot alter the logo or its parts. (ie: using standard font in place of the logo letters in the logo)
- There must be no use of copyrighted materials other than the TSA logo.
- Participants will design a TSA pin that can be worn on blazers, jackets, shirts, sweaters, or blouses.
- The pin must include the letters TSA. It must also include either the state shape or the word Georgia or both in the design. Icons that represent our state have been used in previous designs.
- Be creative with the shape of the pin.
- The design must be computer generated and submitted as an 8 1/2" x 11" document and must include the design in both actual size and in an enlarged version to show detail.
- The actual pin size will range from 3/4" to 2". The size and number of letters in the design must be taken into consideration; a letter on a 10 inch piece of paper will be reduced to 1/10 of an inch on a 1" pin. Therefore, fewer letters and greater size is recommended for a more legible pin.

Process for Submission:

Students must upload their designs via the GA TSA Event Management System Tech Day Registration site no later than midnight October 12, 2020 in a PDF document.

Evaluation:

CRITERIA	Minimal performance 1-4 points	Adequate performance 5-8 points	Exemplary performance 9-10 points
First Impression	Pin is not visually effective and lacks appeal.	Pin was adequate but could improve effectiveness through better use of space, fonts, graphics	Pin is visually appealing and catches the audience's attention and makes good use of space, fonts, and graphics
Required Components	Three or more components are missing from the display	One or two of the required components are missing from the display.	The following items are included on the design: letters TSA, either word "Georgia" or graphic to represent the state. The pin shown in actual size and enlarged are on the uploaded document.
Technical Merits	Poorly presented and appears to be thrown together; cluttered or confusing	Neat, but illustration shows minimal effort; needs better use of graphics	Pin attracts attention, is well-planned, and provides a good use of graphics
Creativity	The pin displays little creativity and is somewhat bland	The pin has some originality	The pin is original, unique, and clever

NOTE: Georgia TSA reserves the right to make any changes to the design which may conflict with its production. All pin designs become the property of GA TSA. When a participant enters a design, he or she relinquishes all rights for the sale and use of the design to GA TSA.

Program Promotion Brochure

Objective:

Participants design a computer generated brochure that can be used to advertise/promote their local TSA Chapter.

Number of Entries per Chapter: One (1) Entry

This is a chapter event and should be entered in the chapter's name (ex. Central Gwinnett HS-TSA).

Guidelines:

1. PLEASE NOTE: IT IS YOUR RESPONSIBILITY TO READ AND UNDERSTAND THE RULES.
2. The design may not exceed 8.5"x11" and may be presented either horizontally, vertically, bi-fold or a tri-fold brochure.
3. The design must be computer generated.
4. The design must be the original work of the entrant. Computer-generated type and public domain computer clip-art may be used. The use of copyrighted artwork or characters is prohibited and will result in disqualification.
5. The design must include the following:
 - a. The TSA Mission "The mission of Georgia TSA is to prepare its membership to be successful leaders and responsible citizens in a technological society through co-curricular activities within the technology education program; which include communication, leadership, and competitive skill development in the classroom/laboratory environment."
 - b. The TSA Motto "Learning to Lead in a Technical World"
 - c. The TSA Creed "I believe that Technology Education holds an important place in my life in the technical world. I believe there is a need for the development of good attitudes concerning work, tools, materials, experimentation, and processes of industry. Guided by my teachers, artisans from industry, and my own initiative, I will strive to do my best in making my school, community, state, and nation better places in which to live. I will accept the responsibilities that are mine. I will accept the theories that are supported by proper evidence. I will explore on my own for safer, more effective methods of working and living. I will strive to develop a cooperative attitude and will exercise tact and respect for other individuals. Through the work of my hands and mind I will express my ideas to the best of my ability. I will make it my goal to do better each day the task before me, and to be steadfast in my belief in my God, and my fellow Americans."
 - d. There should be no use of copyrighted materials other than the TSA logo.

Process for Submission:

Students should submit their designs via the GA TSA Event Management System Tech Day Registration site no later than midnight October 12th 2020 in a PDF document.

Evaluation:

	Minimal performance 1-4 points	Adequate performance 5-8 points	Exemplary performance 9-10 points
Technical Merits (Visual Appearance, Use of Space, Graphics)	Poorly presented and appears to be thrown together; cluttered or confusing	Neat, but illustration(s) show minimal effort; needs better use of graphics	Brochure attracts attention, is well-planned, and provides a good use of graphics
Creativity/Audience Engagement/Passion	The brochure displays little creativity, is bland, and is not engaging nor displays any passion	The brochure is adequately creative, is only somewhat bland, and is somewhat engaging and displays some passion	The brochure is extremely creative, is not bland, and is very engaging and displays a lot of passion
TSA Requirements (Mission, Motto, & Creed)	Has none or one of the following: Mission, Motto, or Creed	Has two of the following: Mission, Motto, or Creed	Has all of the following: Mission, Motto, and Creed
Recommendable (Would you join the chapter?)	I would not join the chapter after reading this brochure.	I would consider joining the chapter after reading this brochure.	I would definitely join the chapter after reading this brochure.

Rube Goldberg Challenge

Objective:

Students will construct a Rube Goldberg device to turn on a light that demonstrates the use of as many mechanisms as possible in a run not to exceed 1 minute.

Number of Entries per Chapter: 1 entry per chapter

Guidelines:

Purpose: The purpose of this competition is to demonstrate an understanding of mechanisms, creativity, and problem solving skills.

Directions:

1. Your video must be unedited.
2. Your video must not exceed 60 seconds.
3. You should demonstrate the use of as many mechanisms as possible to accomplish the given task.
4. Your Rube Goldberg device should end with the turning on of a light.
5. A detailed and numbered list of steps and mechanisms used in the device must be uploaded to EMS with your video link.

Process for Submission:

Submissions should be uploaded to YouTube as a public or unlisted video. The link to the video should then be submitted through EMS. A detailed and numbered list of steps and mechanisms used in the device must be uploaded to EMS with your video link.

Evaluation:

	Minimal performance 1-3 points	Adequate performance 4-7 points	Exemplary performance 8-10 points
Creativity	Little to no creativity, less than minimal effort shown	Neat, but mechanisms show minimal effort; needs better use of mechanisms	Attracts attention, is well-planned, and provides an excellent use of mechanisms
Number of Mechanisms Used	Used 1 - 3 mechanisms	Used 4 - 7 mechanisms	Used 8 or more mechanisms

<p>Video Technical Merits (Video quality, lighting, camera work)</p>	<p>Poorly presented and appears to be thrown together; cluttered or confusing; poor lighting; poor camera work; poor video quality, can't see the function of the mechanisms very well</p>	<p>Adequately presented with sufficient lighting, camera work, and video quality is good enough to see most of the mechanisms working</p>	<p>Great presentation with good lighting, camera work, and video quality is good enough to see all of the mechanisms working</p>
<p>Followed Directions/Criteria Met</p>	<p>Meets 2 or fewer of the following criteria: Video has not been edited, video does not exceed 60 seconds, device turns on a light, contains the list of steps and mechanisms</p>	<p>Meets 3 of the following criteria: Video has not been edited, video does not exceed 60 seconds, device turns on a light, contains the list of steps and mechanisms</p>	<p>Meets all criteria</p>

Safety Poster Design

Objective:

Participants will design a poster that encourages wearing safety glasses in an engineering and technology education lab.

Number of Entries per Chapter: 5 entries per chapter

Guidelines:

The safety poster must promote wearing safety glasses.

The design of the poster must be a student's original work. Public domain clip art may be used; however, the design may not use copyrighted materials. Pictures taken from Google Images or similar search engines are not permitted if the student does not have permission from the owner of the picture for use in the design.

The poster must be designed as 8 ½" X 11". The participant may decide if the poster is oriented towards landscape or portrait.

The design must be computer generated.

Any use of the TSA logo must adhere to the trademark guidelines described on the National TSA website.

A second page must be submitted that lists the source of any graphics that are used in the design.

Process for Submission:

The safety poster will be uploaded into EMS as a two page pdf file with the safety poster being the first

Evaluation:

CRITERIA	Minimal performance 1-4 points	Adequate performance 5-8 points	Exemplary performance 9-10 points
First Impression	Poster is not visually effective and lacks appeal.	Poster was adequate but could improve effectiveness through better use of space, fonts, graphics	The poster is visually appealing and catches the audience's attention and makes good use of space, fonts, and graphics
Theme	The effort is basic, with only a loose association to the poster's theme	Poster portrays understanding of rule (safety glasses); however, theme is not easily determined	Poster fully portrays clear and accurate understanding of the rule concerning wearing safety glasses
Organization and Presentation	Poorly presented and appears to be thrown together; cluttered or confusing	Neat, but illustration shows minimal effort; needs better use of space	Poster attracts attention, is well-planned, and provides a good use of space
Expression of Rule	Rule (safety glasses) is unclear or incorrectly stated	Represents the rule; however may not be clear or concise;	Poster is clear and concise and uses a "catchy" phrase to represent the rule perfectly
Creativity	The poster displays little creativity and is somewhat bland	The poster has some originality	The poster is original, unique, and clever.
Errors	There are more than 3 spelling and/or grammar errors in the design	There are 1-2 spelling and/or grammar errors in the design	There are no spelling and/or grammar errors in the design

Space Colony Design

Objective:

Design a colony on Mars and provide two examples of how the Martian resources will support the colony.

Number of Entries per Chapter: One (1) entry per chapter

Guidelines:

1. Entries are limited to one entry per chapter.
2. Entries must be the original ideas of the local chapter.
3. Entries should display how you would use the Engineering Design Process to create a Space Colony on Mars in which people from Earth can live.
4. Entries must have a scale model using recyclable materials showing their design skills.
5. Entries must be aesthetically pleasing and look like a real miniature colony. This display should be a 3D model.
6. Entrants must record a two minute max video explaining the rationale for their design and upload into EMS before the deadline.
7. The top 10 winners will be recognized during Fall Leadership Conference.

Process for Submission:

Video presentations that demonstrate the scale model and specific highlights are to be uploaded into EMS by midnight **October 12th. Student(s) will not be judged on the quality of the video production but on the quality of the information presented.**

Evaluation:

Space Colony Design Rubric				
Criteria	Minimal Performance	Adequate Performance	Exemplary Performance	Points
	1-4 points	5-8 points	9-10 points	
Engineering Concepts 30 - pts				
Engineering and Technology <i>Demonstrates understanding of engineering and technology</i> <ul style="list-style-type: none"> • Innovation • Plausible solutions 	Answers questions with limited details. Understanding of concepts seems to be lacking.	Answers questions clearly with sufficient details. Good understanding of concepts.	Answers questions clearly and thoroughly. Elaborates with related details. Excellent understanding.	
Living on Mars <ul style="list-style-type: none"> • Demonstrates understanding of Mars issues • Innovation • Plausible solutions 	Answers questions with limited details. Understanding of concepts seems to be lacking.	Answers questions clearly with sufficient details. Good understanding of concepts.	Answers questions clearly and thoroughly. Elaborates with related details. Excellent understanding.	
Design, Systems, and Operations <i>Demonstrates understanding of components that make a colony livable</i>	Answers questions with limited details. Understanding of concepts seems to be lacking.	Answers questions clearly with sufficient details. Good understanding of concepts.	Answers questions clearly and thoroughly. Elaborates with related details. Excellent understanding.	
Engineering Design Thinking - 30pts				
Colony overview & daily life <ul style="list-style-type: none"> • Location, terrain, and benefits • Description of residents and daily life • Recreation • Why do people 	Underdeveloped overview does not provide basic information.	Very good overview supported by many details.	Excellent overview supported by a variety of thorough details.	

<p>want to live in your colony?</p>				
<p>Infrastructure & services</p> <ul style="list-style-type: none"> • Futuristic colony features and infrastructure • Innovative colony services (could include education, healthcare, fire, etc.) 	<p>Underdeveloped description. Lacks detail about infrastructure and services.</p>	<p>Very good description. Many details about infrastructure and services. Futuristic.</p>	<p>Highly detailed and thorough description of infrastructure and services. Very futuristic.</p>	
<p>Use of Mars resources</p> <ul style="list-style-type: none"> • How resources are collected • How resources are used in the colony • Problems/challenges they address 	<p>Briefly mentions challenges. Does not describe how any resources are used in the colony.</p>	<p>Very good description of challenges and how two mars resources are used in the colony. Many supporting details.</p>	<p>Excellent description of challenges and how two Mars resources are used in the colony. Variety of thorough supporting details.</p>	
<p>Presentation of Colony Model -10pts</p>				
<p>Overall presentation content</p> <ul style="list-style-type: none"> • Major elements: intro, body, and conclusion • Logical flow and transitions • Supporting details 	<p>Not very creative. Needs more practice. Poor balance of student presenters and visual aids.</p>	<p>Very creative and confident delivery by most of team. Good balance of student presenters and visual aids.</p>	<p>Extremely creative and confident delivery by entire team. Good balance of student presenters and visual aids.</p>	
<p>Total points:</p>				<p>/70</p>

Chapter T-Shirt Design Event

Objective:

The contest is designed to assess the ability of the competitor to design and produce a drawing of that design, as well as a brief written summary of all aspects of their design.

Number of Entries per Chapter: 1 (This is a chapter event)

Guidelines:

1. Entries are limited to one entry total per chapter.
2. Entries must be the original ideas of the local chapter.
3. Entries T-shirt **mockups only**, *no printed materials should be submitted*.
4. TSA logo is optional for the design (refer to the national website for further details on proper logo Usage <https://tsaweb.org/>).
5. Mock ups must be accompanied by a brief description summarizing all aspects of their design including method of production (ie - vinyl, iron-on, farm out, etc)
6. Design mockup and production summary are due no later than **October 12th**.
7. The top 10 winners will be recognized during Fall Leadership Conference.

Process for Submission:

Mockups and summaries are to be uploaded into EMS by midnight **October 12th**.

Evaluation:

CRITERIA	Basic performance 1-4 points	Adequate performance 5-8 points	Exemplary performance 9-10 points
First Impression	Shirt is not visually effective and lacks appeal.	Shirt was adequate but could improve effectiveness through better use of space, fonts, graphics	Shirt is visually appealing and catches the audience's attention and makes good use of space, fonts, and graphics

Creativity	The shirt displays little creativity and is somewhat bland	The shirt has some originality	The shirt is original, unique, and clever
Use of Graphics	Poorly presented and appears to be thrown together; cluttered or confusing	Neat, but illustration shows minimal effort; needs better use of graphics	Shirt attracts attention, is well-planned, and provides a good use of graphics
Errors	There are more than 3 spelling and/or grammar errors in the design	There are 1-2 spelling and/or grammar errors in the design	There are no spelling and/or grammar errors in the design

TSA Elevator Speech

Objective: Students will produce a 30 second video on the topic “What is TSA?”

Number of Entries per Chapter: 1 entry per chapter

Guidelines:

Definition: An elevator pitch, elevator speech, or elevator statement is a short description of an idea, product or company that explains the concept in a way such that any listener can understand it in a short period of time.

Purpose: The purpose of this competition is to enhance the communication and persuasion skills of TSA Members

Task: Participants are to sell the idea of joining TSA to a group of their peers.

Your **elevator speech** should not exceed 30 seconds.

1. Your video must not be edited.
2. You need to be persuasive.
3. You need to state how you have benefited from joining TSA.
4. You need to be positive and flexible.
5. You need to mention your goals and how TSA connects to your goals
6. You need to end by asking for the potential recruits to come to a meeting or join the team.

Process for Submission:

Submissions should be uploaded the EMS.

Evaluation:

CRITERIA	Minimal performance 1-4 points	Adequate performance 5-8 points	Exemplary performance 9-10 points
Creativity	The effort of the speech was minimal with little creativity in the presentation; did not engage the audience	The speech was somewhat planned and minimally engaged the audience.	The speech was well-planned and creative and engaged the audience.
Technical Merits	The video and audio quality was poor.	The video and audio quality was adequate	The video and audio quality was excellent

Knowledge of TSA (x2)	The speech presented incorrect information about TSA	The speech somewhat represented accurate information about TSA	The speech accurately represented information about TSA
Organization	The speech was poorly organized	The speech was somewhat organized. Time use could have been better.	The speech was well organized and made good use of the allotted time.
Presentation	The speaker articulated poorly and/or grammar was not correct	The presenter articulated well; however, the grammar and word usage was not correct	The presenter articulated well and showed passion in the speech, tone and pitch were pleasant; Correct grammar was used in the speech

TSA Chapter Promotional Video

Objective:

Students will produce a 30 second video promoting their school's TSA chapter.

Number of Entries per Chapter: 1 entry per chapter

Guidelines:

Purpose: The purpose of this competition is to enhance awareness about your school's TSA chapter and to help recruit members for your chapter

Task: Participants are to promote their local TSA chapter.

Your **promotional video** should not exceed 30 seconds.

1. You need to be creative and entertaining.
2. You need to showcase the benefits of TSA membership.
3. You need to be upbeat and interesting.
4. You need to include your meeting dates and times.
5. Your video must not include the use of copyrighted/trademarked materials without written permission.

Process for Submission:

Submissions should be uploaded to YouTube as a public or unlisted video. The link to the video should then be submitted through EMS.

Evaluation:

	Minimal performance 1-4 points	Adequate performance 5-8 points	Exemplary performance 9-10 points
Creativity and Passion	Little to no creativity shown, little to no passion displayed	Video has creativity and passion but could have more	Video is full of creativity and passion
Audio Technical Merits (Audio quality, use of music)	Poorly presented and appears to be thrown together; cluttered or confusing; poor audio quality; poor or no use of music	Adequately presented with sufficient audio; music was used and is good but could have been louder/quieter/clearer	Excellent audio; music was used and is tasteful, fits the mood/vibe of the video and was clear enough and loud

			enough without being too loud.
Video Technical Merits (Editing techniques, video quality, lighting)	Poorly presented and appears to be thrown together; cluttered or confusing; poor lighting; poor camera work; poor video quality; little to no editing or edits are not clean	Adequately presented with sufficient lighting, camera work, and video quality is good enough; edits are evident and most of them are clean	Excellent lighting, camera work, and video quality is superb; edits are evident and all of them are clean
Followed Directions	Meets 2 or fewer of the following criteria: No copyright or trademark materials used; showcases benefits of TSA membership; includes meeting dates, times, and location; is upbeat and interesting; is creative and entertaining	Meets 3 or 4 of the following criteria: No copyright or trademark materials used; showcases benefits of TSA membership; includes meeting dates, times, and location; is upbeat and interesting; is creative and entertaining	Meets all criteria