



26-27 HS Rulebook

High School Unique to Texas Projects

High School Unique to Texas Projects (UTE-Projects) are events that are unique to the state of Texas and can be competed at the regional and state level.

Projects can be completed either individually or as a team. When registering the project for the Regional Competition, the project will be registered to one student of a team.

Regions may enter up to 5 projects for each UTE-Project event.

If students ONLY have events in this category, they may register as a virtual competitor and attendance is not required.

Students are responsible for reviewing and following the general rules and guidelines established in the:

- General Rules and Regulations
- Copyright Policy
- Student Uniqueness of Work Policy/AI Policy
- Required Documentation

These rules and requirements may be modified at the regional levels to accommodate for space and time constraints, check with your region for more details.

IMPORTANT - Ignorance of the rules and/or misunderstanding of the rules as run at the state conference is not an excuse for a protest or additional consideration.

Exploratory

These events are designed for high school students who are beginners to explore the different areas of the UTE-Projects. While students who place in the top five in each event will earn awards, the points do not count towards school awards. All projects must include the required documentation and refer to the High School Event Guidelines for submission directions.

Section 0.0 Manufacturing

Documentation for these events must include:

- Texas TSA Documentation form
- Bill of Materials form

CNC/CAM

Event

Details

Event #

Exploratory CNC/CAM	Use CNC/CAM to create a fidget toy that is made of at least 2 parts. Fidget toy must not exceed 6"x6"x6". All parts must be designed by the student. No Thingiverse or similar downloads.	HP00000
---------------------	---	---------

Wood

Event	Details	Event #
Exploratory - Wood	Build a birdhouse with overall dimensions not to exceed 10" deep x 12" wide x 12" tall. Birdhouse should have an opening, a perch, anchor point to hang or to mount, and painted or stained ext	HP00100

Metal

Event	Details	Event #
Exploratory - Metal	Build a table top traditional windmill. The blades need to be able to turn. Overall dimensions not to exceed 10" deep x 10" wide x 18" tall.	HP00200

Materials

Event	Details	Event #
Exploratory - Materials	Create an interactive pet toy made from 2 or more materials. At least 1 material must be a recycled material. Maximum size of the toy is 12"x12"x12"	HP00300

Section 0.1 Graphic Arts, Multimedia, Computer Science, and Photography

Documentation for these events must include:

- Texas TSA Documentation form

Multimedia

Event	Details	Event #
Exploratory - Multimedia	Make a how to video explaining how to make a paper airplane. Video should include directions and visual demonstration. Video not to exceed 60 seconds.	HP01100

Graphic Design

Event	Details	Event #
Exploratory - Graphic Design	Create a flyer advertising a meeting, event, or opportunity for your local TSA chapter. Be sure to include date, time, location, and other information that a potential attendee might need to know.	HP01000

Computer Science

Event	Details	Event #
-------	---------	---------

Exploratory - Computer Science	Design an Algorithm: Submit a student-developed procedure/function/method that contains sequencing, selection, and iteration. Use code comments to identity the following: • procedure name • sequencing • selection • iteration • inputs (if any) • outputs (if any) Include a code comment at the top of the document that describes what the procedure does/what function it serves (can be a stand-alone algorithm or part of a larger program).	HP01200
--------------------------------	---	---------

Photography

Event	Details	Event #
Exploratory - Photography	Capture a moment with your camera that includes an activity you enjoy outside of school. Refer to the photography section of the rulebook for allowable processing. The photograph needs to be color and submitted as a virtual submission.	HP01300

Section 0.2 Technical Design

Documentation for these events must include:

- Texas TSA Document form

Engineering

Event	Details	Event #
Exploratory - Engineering	Create the top, front, and right view sketch of the following power tool. All views must fit on 1 sheet of paper, size 8.5"x11".	HP02000

Architecture

Event	Details	Event #
Exploratory - Architecture	Free hand sketch any exterior view of this house. Pen or Pencil only on 8.5" x 11" white cardstock paper.	HP02100

Models

Event	Details	Event #
Exploratory - Models	Create a scale model of "She Shed" that is 8'x16'. Include floor plan and interior elevations on the inside of the model with a removable roof. Model is limited to an 8.5"x11" footprint.	HP02200

Section 0.3 **Applied Technical Science**

The project footprint should not exceed 24"x36"

Documentation for these events must include:

- Texas TSA Documentation form
- Bill of Materials form

Applied Science Display

Event	Details	Event #
Exploratory - Applied Science Display	Propose an experimental design to test the efficacy of a novel vaccine. Include the process to create the vaccine, the clinical trials process, and biotechnology related immunoassays required to test the vaccine's effectiveness against the virus. Describe the expected results if the vaccine is effective if it is not effective.	HP03000

Applied Science Prototype

Event	Details	Event #
Exploratory - Applied Science Model/Prototype	Create a new wind generator prototype. The wind generator needs to include the wind harnessing mechanism and base structure. Also, a one page (maximum length) explanation of the prototype and the process that it uses to convert the wind to energy.	HP03100