

Far West Texas TSA Tech Day 2024

Slow Coaster

Eligibility

One (1) team of two to three (2-3) members per chapter may participate, one(1) entry per team.

Time Limits

1. Participants have two (2) hours beginning at the event orientation meeting, to brainstorm, design, and build the slow coaster using all materials provided.
2. A deduction of five (5) points will be incurred for exceeding the time limit.

Procedure

1. Participants report to the event area at the time and place stated on the conference map and program.
2. The event coordinator verifies that the materials are accounted for and allowable, information, directions and deadlines to each team.
3. Each team will be responsible for completing their coaster within the allotted time using all the materials provided.
4. Entries will be tested by the event coordinator using the same size marble.
5. In the event of a tie, the tiebreaker will be a different sized marble as determined by the event coordinator.

Regulations

- A. The board must lean or be taped against freestanding objects between 45-90 degrees with respect to the ground.
- B. The entire coaster must be built on the board alone.
- C. The coaster must fit within the parameters of the board.
- C. The board may be altered and portions may be used for the maze, as long as the main support board is one piece and previous requirements are met.
- D. Coaster must include a minimum of one loop that the marble travels on.
- E. Coaster must include a minimum of one funnel that the marble travels on.
- F. You will have two hours to complete construction of your coaster.
- G. You will need to clean up your coaster prior to leaving.

Evaluation

1. The team whose marble takes the longest to complete the coaster from start to finish in continuous motion wins.
2. The marble travel time will stop once it reaches the ground.
3. You may not push the marble or touch the board and its components while you test.
4. Any violation will result in disqualification.

Materials needed

1 hot glue gun with glue sticks
Scissors
Cutting mat(s)
1 roll of masking tape
1 Foam board (20' X30')
20 index cards
5 ft of string
15 pieces of construction paper
30 popsicle sticks
10 rubber bands