



TULSA STATE FAIR MARBLE ROLLER COASTER CONTEST

**1ST PLACE=\$300 2ND PLACE=\$200 3RD PLACE=\$100
FOR YOUR CLASSROOM!**

The Flight Night STEM Exploratorium is a half day event on Thursday, September 22, 2016, from 10:00 am - 1:00 pm for 6th - 8th grade students, focused on providing students hands-on examples of real world STEM careers. The event will be held at the Exchange Center at Expo Center and lunch will be provided.

Please fill out this form in order to attend the event. Deadline is Tuesday, September 6.

Online: TulsaSTEM.org Email: caroline.conner@tulsastem.org

Fax: 918-794-1685 Mail: TRSA, 110 W 7th St. Suite 1800, Tulsa OK 74119

First & Last Name: _____ Phone: _____

School

Name: _____ Email: _____

School Address: _____ Subjects

Taught: _____

Grade of students attending: _____ Number of students attending (40 max): _____

Number of students receiving lunch provided by STEM Exploratorium: _____

Number of roller coaster entries: _____



CONTEST RULES

Problem: Build a roller coaster for a marble. The marble must start on one corner of the poster board, change directions at least five times, and finish in the opposite corner.

Materials:

- (1) 18" x 24" poster board or cardboard as base
- (24) index cards
- (6) sheets of 8 1/2" x 11" copy paper
- (2) empty paper towel rolls
- (1) cereal box
- (2) 16.9 oz water bottles
- (5) small paper clips
- 72" masking tape
- (1) marble

Scholarships available for materials

Scoring Rubric:

1. Sound design and construction (up to 25pts)
2. Aesthetics (up to 25 pts)
3. Creativity (up to 25pts)
4. Length of ride (1 point per second)



CONTEST RESTRICTIONS

- You may only use the materials listed in your construction of the roller coaster. Other materials (paint, glitter, stickers) may be used for decorative purposes only.
- Your roller coaster can only be attached to the poster board
- The poster board must remain flat on the table
- You are not required to use all of the materials
- You may not touch your marble once the marble has started to move
- You may not make any changes to your design once you have declared that your roller coaster is open to the public
- You may test your roller coaster during construction with a "marble dummy"