

# 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 21, 2017, 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 5.**

**Online:** [TulsaSTEM.org](http://TulsaSTEM.org) **Email:** [jaime.christensen@tulsastem.org](mailto:jaime.christensen@tulsastem.org)

**Fax:** 918-794-1685 **Mail:** TRSA, 907 S Detroit Suite 600, Tulsa OK 74120

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"x24" 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"

