



## K'NEX EDUCATION PHYSICS CHALLENGE RULES & GUIDLINES 2009 – Multi Directional Rides

This year we are asking your students to come up with a ride that is multi directional. This can be a roller coaster or a rotational ride. This is your chance to **BE CREATIVE!**

### Design & Materials

- ▶ K'NEX Education (or K'NEX) pieces/materials must be used for the main structure of the ride. Other materials may be used for decoration, etc.

**Provide to Six Flags Great Adventure by April 1, 2009 – Please put the name of your ride and/or school on each piece submitted and in each photo.**

- ▶ School name, teacher name, grade level, contact email address, school address, contact phone number.
- ▶ 6 digital photos of the ride with ruler in photo for scale.
- ▶ Video of ride making 2 consecutive complete ride cycles. Video can be emailed or mailed via VHS, DVD or CD.
- ▶ Name of students who worked on project.
- ▶ Name and theme for the ride.
- ▶ 1 or 2 page (double spaced) scientific analysis of the ride. An additional one page addendum including formulas and the computations used to analyze the ride will be accepted. Additional pages will not be considered during the judging process.  
Be brief! Be specific!

Please mail items to:

Six Flags Great Adventure  
Attn: Physics Challenge  
Route 527  
Jackson, NJ 08527

Or email: [njspecialevents@sixflags.com](mailto:njspecialevents@sixflags.com)

**Final model should NOT be brought to the theme park.  
Only entry photos will be displayed in the theme park on Physics Days.  
Winners will be announced May 1, 2009.**

### Judging Criteria

- ▶ "Ride ability" (i.e. Safety)
- ▶ Scientific analysis
- ▶ Engineering applications
- ▶ Name and overall theme
- ▶ Visual impact
- ▶ Originality

### Winners

Number of winners will be determined by number of entries received.

- ▶ 1<sup>st</sup> place: Tickets to Six Flags Great Adventure & Wild Safari for the 2009 season.
- ▶ 2<sup>nd</sup> place: Tickets to Six Flags Hurricane Harbor in NJ for the 2009 season.
- ▶ 3<sup>rd</sup> place: Tickets to Six Flags Wild Safari for the 2009 season.