

TO: Tomahawk Board of Education  
FROM: James L. Krueger, Physics Teacher

2/23/2015


I am writing to inform you that I would again like to take my physics class to Six Flags Great America in Gurnee, IL. I am planning to take the students in May (the exact date to be determined.) Great America will be holding their annual Physics Days during this time. The park is closed to the general public on this day in order to accommodate high school physics students from around the Midwest. During the Physics Day, Six Flags offers educational seminars on the physics behind roller coasters. In addition to the seminar, the students will be required to demonstrate their ability to use the physics principles we covered this year to analyze a roller coaster and a rotating ride. For example, the students will be asked to calculate the speed at the bottom of the first hill of their coaster as well as the maximum positive and negative g-load they encounter while riding the coaster. Their analysis will be summarized in a final laboratory report. This trip gives the kids a great opportunity to tie together ideas they developed in class with a real world situation.

This year I only have 18 students planning to go to Great America. I'm hoping to co-op with the Merrill High School physics classes again to help offset the bus cost. In years past, we have departed about 5:30 am and returned about 11:00 pm. Assuming we make about the same amount of money during our annual car wash fundraiser and Merrill High agrees to go with us, the cost should be about \$40.00 - \$60.00 per student (includes bus and ticket).

This trip is truly a quality educational experience and one of the highlights of the year for the students.

I sincerely hope that this trip again meets with your approval.

Thank You,



James L. Krueger

Physics, Chemistry and Physical Science Teacher, Tomahawk High School

TOMAHAWK SCHOOL DISTRICT  
FIELD TRIP REQUEST

Requestor/Title: James Krueger

Event: SIX FLAG FIELD TRIP

Location: GURNEE, IL

Date(s) and Time of Travel: MAY 13, 2015 (subject to change)

Same Day Trip  Overnight Trip

Justification: physics trip to Six Flags  
Great America

Approximate Students: ~18

Chaperones Utilized: 1

Transportation Utilized: Lamers Bus Company (May Co-op w/ Merrill High School Physics)

Cost (per individual, total cost): ~40<sup>00</sup> - 60<sup>00</sup>

Funding Activity: Car wash

Cost to School District: 400<sup>00</sup>

Date of Request: 2/24/15

Principal Approval Initials: [Signature]

DA Approval Initials: \_\_\_\_\_

Board Approval Date: \_\_\_\_\_

Participants who request fieldtrips are expected to give a short presentation at the Board meeting following the trip.