

# Amusement Park Physics 2009

## Michigan's Adventure

### ***Participation Guidelines***

The Amusement Park Physics (APP) program allows students to apply mathematics, measuring, and physics to solve problems in a real world setting. However, the experience begins in the classroom. Students must learn to perform measurements suited to the scale of an amusement park. They build an accelerometer (for measuring accelerations) and an altimeter (for measuring angles). Practice using these tools can be accomplished at schools using the flag pole, height of a building, or a telephone pole, etc.

**New participants** need to attend a training session sponsored by the MAISD Regional Mathematics & Science Center at a cost of \$45 which includes a teacher training manual.

**OR**

**New participants** need to purchase the teacher training video and manual at a cost of \$50. <http://www.muskegonisd.org/amusement/registernew.htm>

**Returning participants** may purchase the student materials from the MAISD Regional Mathematics & Science Center or provide their own materials.

**Both new and returning participants** attending the APP day must register with the MAISD Regional Mathematics & Science Center. Registered schools will receive specific information concerning APP 2009

<http://www.muskegonisd.org/amusement/registernew.htm>



**What is the diameter of the Ferris Wheel and the speed of a gondola as it rotates?**