**SIX FLAGS OVER GEORGIA MATH and SCIENCE DAY**

**HIES SCIENCE DATA COLLECTION**

Your data may be recorded on your phone orally, as a text or using the notepad app. OR Write it down on a sheet of paper or a notecard. The information will be used in class on Monday to complete a GRADED assignment at school!

*BE SURE TO DOWNLOAD THE DATA ONTO YOUR COMPUTER/EMAIL IT TO YOURSELF BEFORE MONDAY! EACH MEMBER OF YOUR GROUP MUST HAVE THE DATA.*



***You will be comparing the speeds of the Georgia Cyclone and the Great American Scream Machine. These are two old wooden coasters, engineered with modern technology.***

Task 1 is the same for both rides – Do your measurements from which ever ride you get to first.

**TASK 1**: Walk from the Georgia Cyclone to the Scream Machine (in either direction.)

* As you walk, **count the number of strides** it takes to walk from the teacher stationed at one ride to the teacher stationed at the second ride. Record the number of your strides. *Each student must count his/her own strides!*
* Time how long (in minutes) it takes you to walk. Record your time.

Data: # of strides = Time to walk =

**TASK 2**: Measure the time (in seconds) it takes for a Scream Machine car to go from the starting point until it comes to a complete stop when it arrives back at the station.

Record your measurements. Repeat two times.

Data: Scream Machine time 1 = Scream Machine time 2 = Scream Machine time 3 =

**TASK 3:** Name two parts of the Scream machine ride where you felt the effect of the inertia of your body. (Newton’s First Law.) Record your answer.

**TASK 4:** What did you feel to make you recognize the inertia of your body? Record your answer.

*Students in each group may collaborate on the answers to Tasks 3 & 4 and share what they felt with any student in the group who did not go on the ride. DO NOT SHARE INFORMATION WITH OTHER GROUPS!*