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. **Each member of the team MUST have the data downloaded on your computer for class on Monday.**

NINJA RIDE

(Total track length = 820 m, length of the train = 17.5 m long.)

TASK 1: Measure the **total time for the ride in seconds** in order to calculate the average speed of the ride. Start timing as the ride starts and stop when it comes to a compete stop.

Repeat the measurement two more times and record the data.

Ninja total time 1 = Ninja total time 2 = Ninja total time 3 =

TASK 2: In order to calculate the instantaneous speed of the roller coaster at one point along the track, ***measure the time it takes for the entire train to pass one point***. **STAND TO THE SIDE OF THE HICKORY CHIP STAND NEAR THE COTTON STATES EXPOSITION SIGN FOR THE BEST VIEW OF THE RIDE SHOWN IN THE PICTURE.**

Choose one point on the diagram below. Record the letter of the chosen point. ***(Do either A OR B – not both, and then choose one other point.)***

Start the timer as the front of the train passes that point. Stop as the back of the train passes the same point. Repeat. Record the time in seconds.

Repeat your measurements for a second point. Record your data.

Letter of first chosen point = Time 1 = Time 2 =

Letter of second chosen point = Time 1 = Time 2 =