**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 3 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.

Choose one point on the diagram below. Record the letter of the chosen point. ***(Do either A OR B – not both, 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 =



A

B

C

D

E