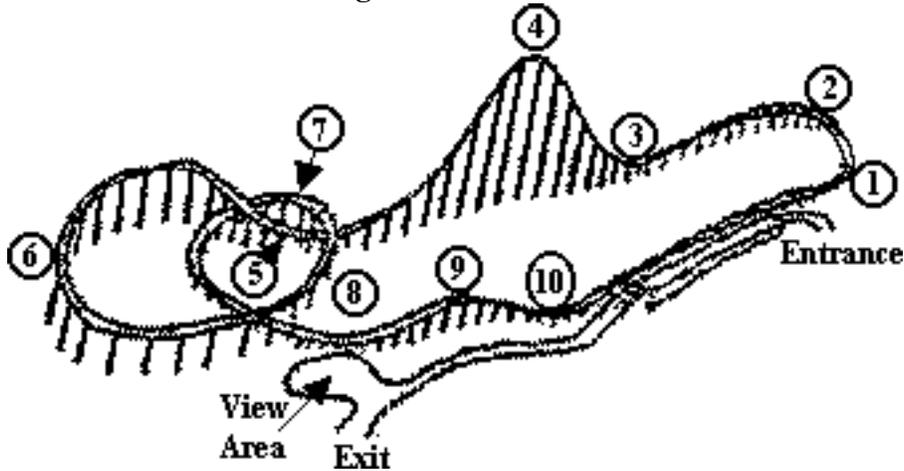


Woodstock Express

Directions: Use the numbers in the diagram to fill in the blanks in front of the letters.



**Prediction
before riding**

**Observation
during ride**

- A. Greatest kinetic energy
- B. Least kinetic energy
- C. Greatest gravitational potential energy
- D. Least gravitational potential energy
- E. Greatest sideways centripetal force

Use an accelerometer to measure the vertical acceleration at:

#5 _____

#6 _____

Compare how the ride felt at locations #'s 5, 6, 7 and 9.

Use the concept of inertia to explain the sensations you felt at locations #'s 5, 6, 7 and 9.