

### The Steamin' Demon #3

*This page considers the loop portion...*

1. What force or forces do you feel at the top of the loop?

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2. Draw a free body diagram of the forces acting on you at the bottom of the loop.

3. Draw a free body diagram of the forces acting on you at the top of the loop.

4. Assuming the loop is a circle (which it is not) what minimum speed must the Demon maintain at the top of the loop to prevent riders from falling out?