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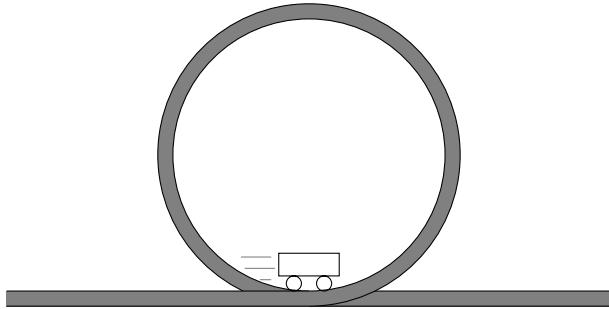
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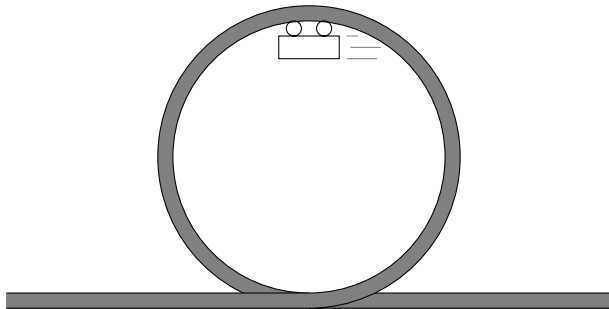
Multi-Force Circular Problem (Consolidation)

A roller coaster car of mass 600 kg goes around a loop of radius 8 meters with an (assumed constant) speed of 9 m/s.

- (a) Find the normal force of the track on the coaster at the bottom of the loop.



- (b) Find the normal force of the track on the coaster at the top of the loop.



- (c) What is the minimum speed the car needs to not fall off at the top of the loop?

