

Prelab 10

A 100 g Hot Wheels™ car traveling on a plane with an initial speed of 2 m/s slows down to 1.5 m/s after traveling 1 m. After traveling 2.1 m, the car runs into a spring with a force constant of 36 N/m. Construct a complete model of the car explaining the motion of the car and determine how far the spring will compress.