

A 14 g bullet is shot into a ballistic pendulum that has a mass of 2.47 kg. If the bullet is traveling horizontally at 446 m/s just before it enters the pendulum bob, to what height will the pendulum rise above its rest position?

A bullet of mass 10g is fired horizontally into a block of wood of mass 2kg and suspended like a ballistic pendulum. The bullet sticks in the block and the impact causes the block to swing so that its center of gravity rises 0.1m . What is the velocity of the bullet just before impact?

A 11.0 g rifle bullet is fired with a speed of 380 m/s into a ballistic pendulum with mass 10.0 kg, suspended from a cord 70.0 cm long.

-Compute the vertical height through which the pendulum rises.(cm)