

Spring Energy & Momentum Problem

Name: _____ Date: _____

A 0.05 kg bullet travelling at 500 m/s [right] strikes a 5kg block moving at 1.0 m/s [left]. After the inelastic collision (bullet embeds in the block) the two travel along the frictionless surface where they hit an ideal spring (spring constant of 1500 N/m). Determine the maximum compression of the spring.

