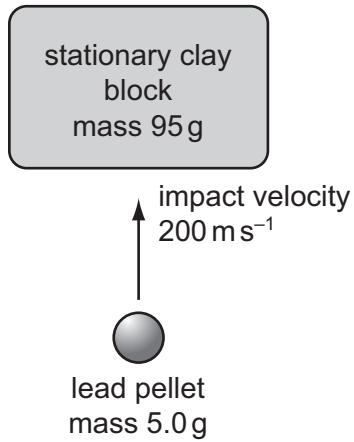


- 14** A lead pellet is shot vertically upwards into a clay block that is stationary at the moment of impact but is able to rise freely after impact.



The pellet hits the block with an initial velocity of 200 m s^{-1} . It embeds itself in the block and does not emerge.

How high above its initial position will the block rise?
(Mass of pellet = 5.0 g; mass of clay block = 95 g.)

- A** 5.1 m **B** 5.6 m **C** 10 m **D** 2000 m

Space for working