4 To determine the acceleration of free fall, a steel ball is dropped above two light gates as shown.
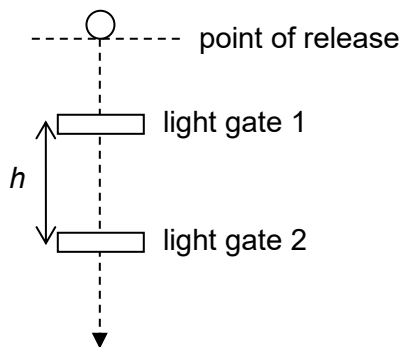
The ball passes light gate 1 and 2 at times t_1 and t_2 after release.

What is the acceleration of free fall?

A $\dfrac{2h}{t_2 - t_1}$ **B** $\dfrac{2h}{(t_2 - t_1)^2}$ **C** $\dfrac{2h}{t_2{}^2 - t_1{}^2}$ **D** $\dfrac{2h}{\left(\dfrac{t_2 + t_1}{2}\right)^2}$