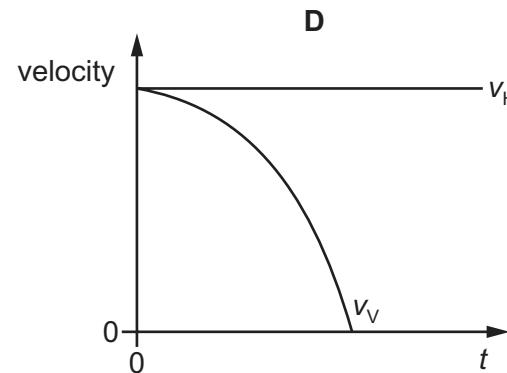
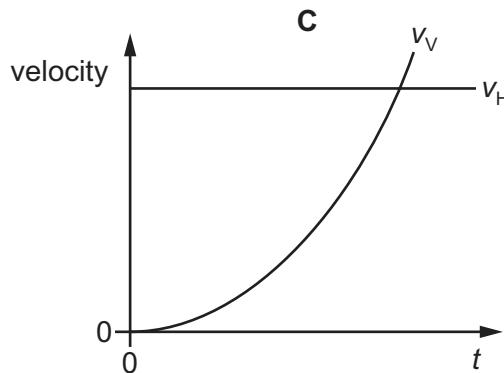
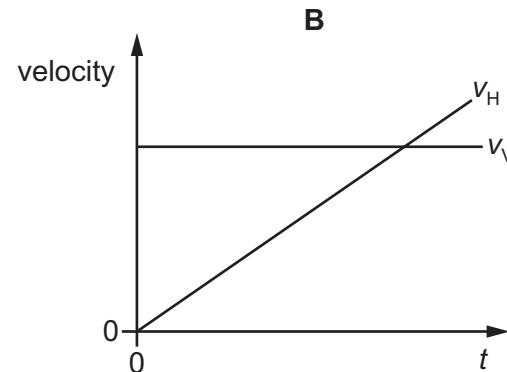
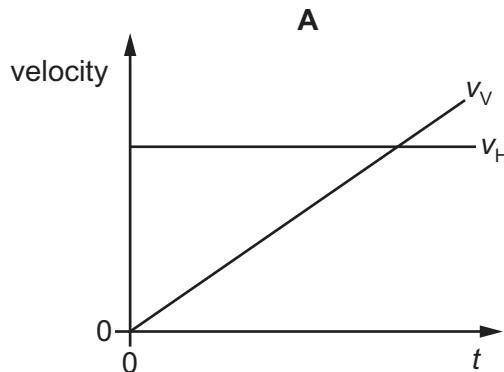


- 6 A stone is projected horizontally at time $t = 0$ and falls. Air resistance is negligible. The stone has a horizontal component of velocity v_H and a vertical component of velocity v_V .

Which graph shows how v_H and v_V vary with time t ?



- 7 Two isolated spheres have masses 2.0 kg and 4.0 kg. The spheres collide and then move apart.