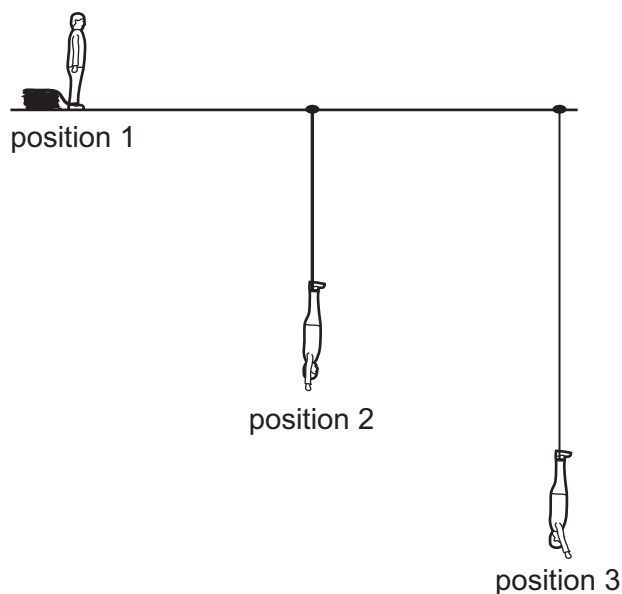


- 16 When bungee jumping, a student starts with maximum gravitational potential energy (position 1), then falls freely until the rope fully unwinds (position 2), after which the rope starts to stretch until the lowest point of the jump is reached (position 3).



What are the kinetic and elastic potential energies at position 3?

	kinetic energy	elastic potential energy
<b>A</b>	maximum	maximum
<b>B</b>	maximum	minimum
<b>C</b>	minimum	maximum
<b>D</b>	minimum	minimum

- 17 Two solid substances P and Q have atoms of mass  $M_P$  and  $M_Q$  respectively. There are  $n_P$  and  $n_Q$  atoms per unit volume respectively.

It is found by experiment that the density of P is greater than that of Q.

Which deduction from this experiment must be correct?

- A**  $M_P > M_Q$
- B**  $n_P > n_Q$
- C**  $M_P n_P > M_Q n_Q$
- D**  $\frac{M_P}{n_P} > \frac{M_Q}{n_Q}$