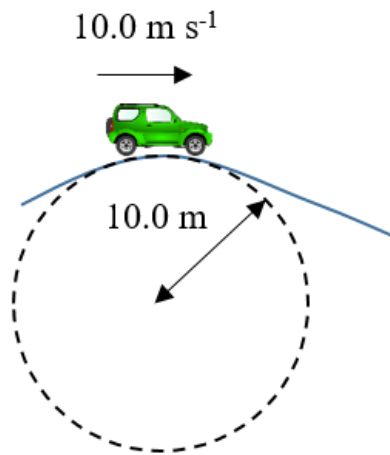


- 9 A car drives over a hump with a circular radius of 10.0 m at a speed of 10.0 m s^{-1} .



A 250 g mass is suspended vertically from the ceiling of the car by a spring of force constant 25.0 N m^{-1} .

What happens to the spring as the car passes over the hump?

While passing over hump

- A Shortens by 10 cm
- B Shortens by 20 cm
- C Lengthens by 10 cm
- D Lengthens by 20 cm