

16 A concrete cube of side 0.60 m and uniform density $2.0 \times 10^3 \text{ kg m}^{-3}$ is lifted 5.0 m vertically by a crane.

What is the change in potential energy of the cube?

A 2.2 kJ

B 21 kJ

C 59 kJ

D 450 kJ

17 The force resisting the motion of a car is taken as being proportional to the square of the car's