

- 6 The gravitational field strength at the Earth's surface is 9.81 N kg^{-1} . Assume that the Earth is a sphere of radius $6.37 \times 10^6 \text{ m}$.

What is the mean density of the Earth?

- A 1840 kg m^{-3}
- B 2890 kg m^{-3}
- C 5510 kg m^{-3}
- D $4.68 \times 10^{10} \text{ kg m}^{-3}$

- 7 A pendulum of mass 0.40 kg swings from a frictionless pivot.