

10 The gravitational potential at the surface of the Earth is $-6.257 \times 10^7 \text{ J kg}^{-1}$.

The radius of the Earth is $6.371 \times 10^6 \text{ m}$.

What is the gravitational potential 50 000 m above the Earth's surface?

- A** $-6.208 \times 10^7 \text{ J kg}^{-1}$
- B** $-6.252 \times 10^7 \text{ J kg}^{-1}$
- C** $-6.262 \times 10^7 \text{ J kg}^{-1}$
- D** $-6.306 \times 10^7 \text{ J kg}^{-1}$

11 Which is the description of a graph relating temperature in degrees Celsius (horizontal axis) to