

- 11 The table below gives the gravitational potential values at various points in the field of a planet.

Distance from surface / km	Potential / $\text{kJ kg}^{-1}$
0	- 544.6
220	- 369.2
230	- 345.8
240	- 322.5
Infinity	0

What is the gravitational acceleration at a height of 230 km above the surface of this planet?

- A**  $1.50 \text{ m s}^{-2}$       **B**  $2.34 \text{ m s}^{-2}$       **C**  $3.46 \text{ m s}^{-2}$       **D**  $9.81 \text{ m s}^{-2}$

[Turn over