11 For an object of mass m at a point near the surface of the Earth, the weight W of the object is given by the expression shown.

$$W[\text{N}] = 9.81\,[\text{m s}^{-2}] \times m\,[\text{kg}]$$

Why is this expression **not** valid for a mass at a point that is far above the surface of the Earth?

A   The gravitational field strength is smaller.

B   The gravitational force is constant.

C   The gravitational potential energy is constant.

D   The gravitational potential is smaller.