

- 15** For a change in depth Δh in a liquid of density ρ , the change in pressure Δp is given by $\Delta p = \Delta h \rho g$ where g is the acceleration of free fall.

What is the equation, or principle of physics, used in the derivation of this formula?

- A** atmospheric pressure decreases with height
- B** change in gravitational potential energy = mass $\times g \Delta h$
- C** $\rho = \frac{\text{mass}}{\text{volume}}$
- D** the density of a fluid increases with depth