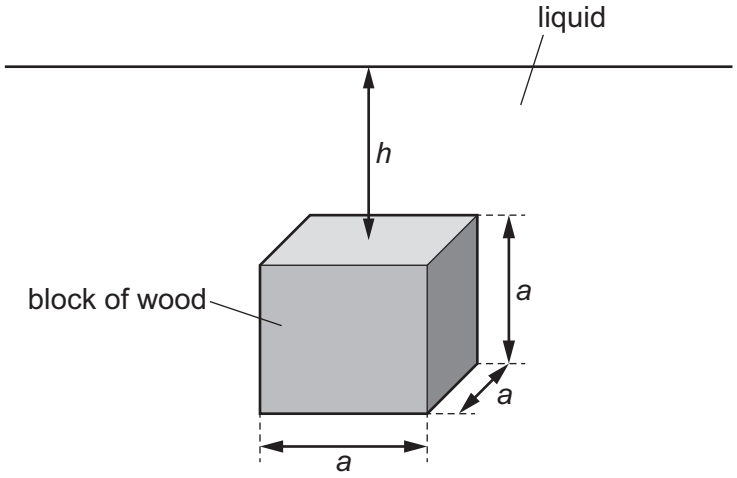
15 A block of wood of density ρ_w has sides of length a.

The block is immersed in a liquid of density ρ_L. The top surface of the block is at a depth h below the surface of the liquid.



The acceleration of free fall is g.

What is the upthrust acting on the block from the liquid?

A $\rho_L a^3 g$ **B** $\rho_w a^3 g$ **C** $\rho_L hg$ **D** $\rho_L ag$