A sphere of radius r is made from material of density $\rho_{\rm M}$. The sphere is fully immersed in a liquid of density $\rho_{\rm L}$.

Which of the following expressions gives the upthrust on the sphere?

Which of the following expressions gives the upthrust on the sphere?

$$\square$$
 B $\frac{4}{3}\pi r^3 \rho_{\rm M} g$

 \triangle A $4\pi r^2 \rho_{\rm M}$

$$\square$$
 C $\frac{4}{3}\pi r^3 \rho_{\rm L} g$