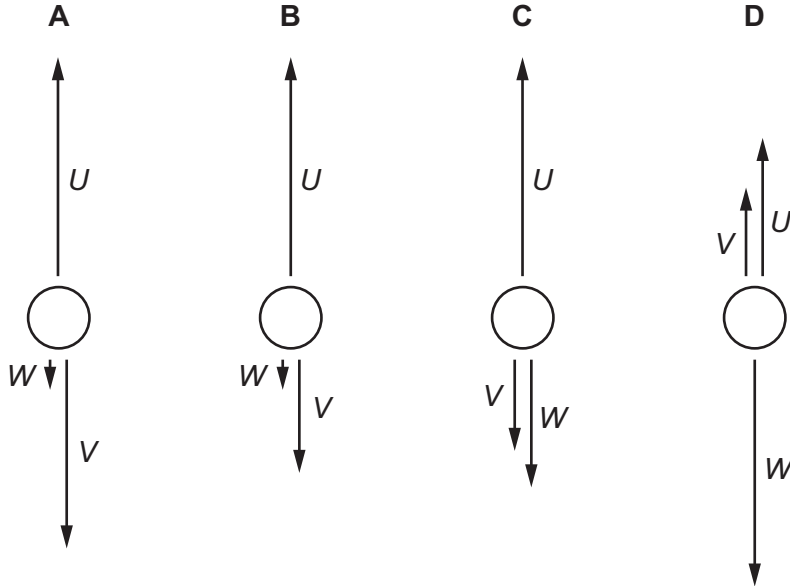


- 11** An air bubble is rising through a liquid at a constant speed. The forces on it are the upthrust  $U$ , the viscous drag  $V$  and its weight  $W$ .

Which diagram shows the directions and relative sizes of the forces?



- 12** A small object is pushed down into a liquid by a force of  $0.2\text{ N}$ . It is released.