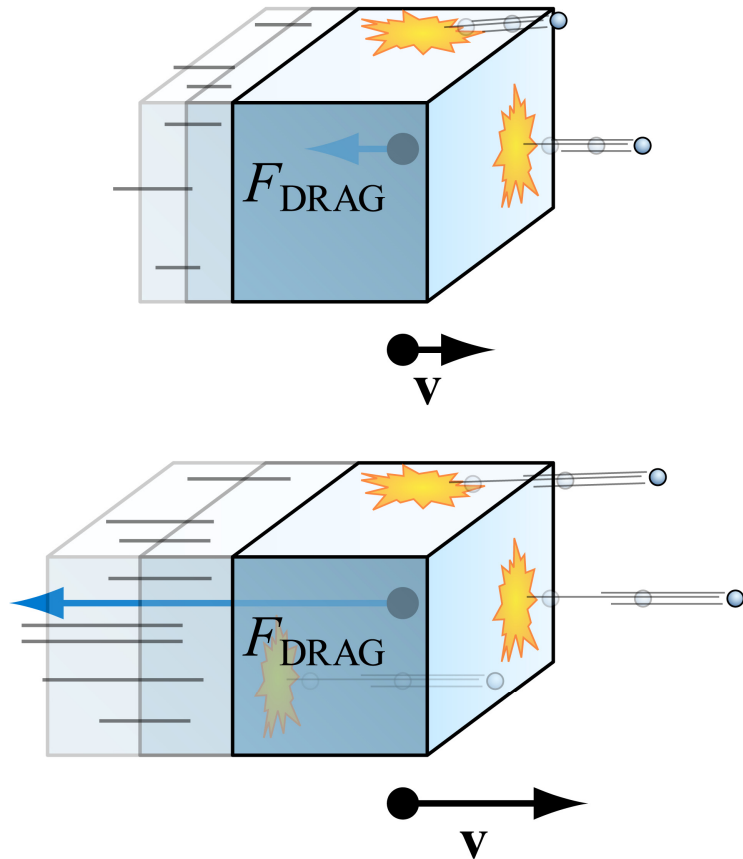


# Drag force

When an object moves through a fluid, the fluid pushes on the object with a **drag force** that

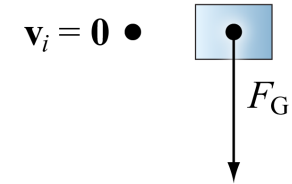
- (a) opposes the movement of the object through the fluid
- (b) increases in strength as the object moves more quickly through the fluid.



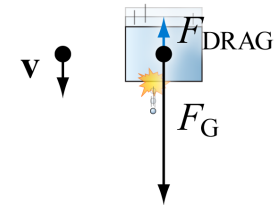
$F_{DRAG}$  is often neglected when not explicitly mentioned.

An object that has achieved **terminal velocity** is falling through a fluid at a velocity for which  $F_{DRAG}$  balances  $F_G$ .

(a) Release from rest



(b) After falling for a while



(c) A lot of time

⋮

(d) After falling for a very long time

