

### Terminology

**Drag Force** A force that opposes or resists motion, caused by collisions of moving objects with molecules in a fluid like air or water

**Terminal Velocity** The constant speed a freely falling object will eventually reach when the fluid through which the object is falling prevents further acceleration

### Equation

$F_{\text{drag}}$  : drag force  
 $C_{\text{drag}}$  : drag constant  
 $A$  : surface area  
 $\rho$  ("rho") : density of the fluid  
 $V$  : velocity of object

### Example Problem

### Equation

$$F_D = \frac{1}{2} \rho A C_D v^2$$



By BeeBooBopNerd

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Not published yet.

Last updated 4th May, 2022.

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