

### 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

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



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