# Drag Force Cheat Sheet

**Terminology**

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drag Force</td>
<td>A force that opposes or resists motion, caused by collisions of moving objects with molecules in a fluid like air or water.</td>
</tr>
<tr>
<td>Terminal Velocity</td>
<td>The constant speed a freely falling object will eventually reach when the fluid through which the object is falling prevents further acceleration.</td>
</tr>
</tbody>
</table>

**Equation**

\[ F_D = \frac{1}{2} \rho AC_D v^2 \]

- \( F_D \): drag force
- \( C_D \): drag constant
- \( A \): surface area
- \( \rho \) ("rho"): density of the fluid
- \( V \): velocity of object

**Example Problem**

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