

**CHAPTER 3****HANDOUT**

# Comparing the Forces That Act During Flight

**BLM 3-10**

## Fill in the Blanks

**Goal** • Fill in the blanks using what you know about forces that act during flight.

Force	Direction	How it Works
_____	downward	<ul style="list-style-type: none"> <li>• _____ pulls all objects downward.</li> <li>• Only very large objects, such as Earth, have a noticeable gravitational pull.</li> </ul>
buoyancy	_____	<ul style="list-style-type: none"> <li>• An object displaces a liquid or gas (for example, a hot air balloon displaces air).</li> </ul>
lift	upward	<ul style="list-style-type: none"> <li>• Wings are _____</li> <li>• Air passes over a curved wing more quickly than under it, as it must travel further.</li> <li>• Air pressure _____ as air speed increases.</li> <li>• Higher-pressure air flowing under the wing pushes it upward.</li> <li>• The wing is lifted up</li> </ul>
_____	backward	<ul style="list-style-type: none"> <li>• As the _____ of an object increases, so does drag.</li> </ul>
thrust	_____	<ul style="list-style-type: none"> <li>• Forces is generated by wings, _____, or other means.</li> <li>• If the forces overcomes _____, the plane moves forward through the air.</li> </ul>