

Comparing the Forces That Act During Flight

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