

Name: _____

Bernoulli's Principle SPH4C



The speed at which a fluid flows depends on the _____ of the pipe.

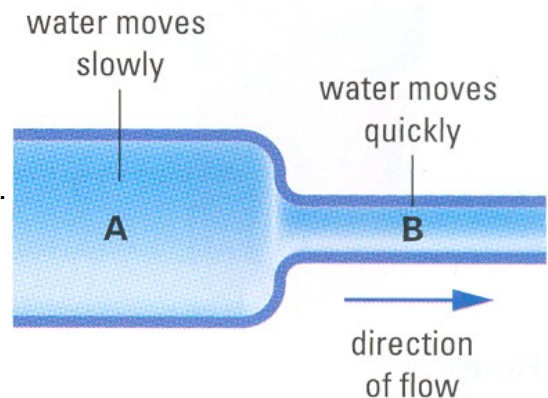
In the diagram below, the fluid must flow more quickly in section _____ than in section _____.

The water must _____ as it moves from A to B.

This acceleration must be caused by a _____.

This force is caused by the difference in

_____ between the two regions.



Bernoulli's Principle:

Where the speed of a fluid is low, the pressure is _____.

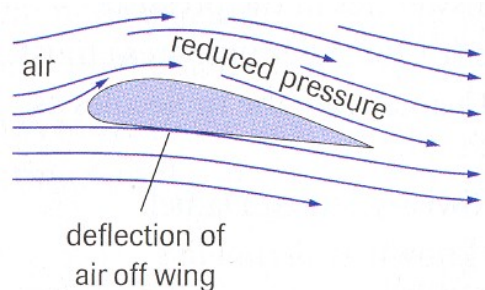
Where the speed of a fluid is high, the pressure is _____.

The upward force, or _____, on an airplane wing can be explained using Newton's 3rd Law of Motion and Bernoulli's Principle. As the wing moves

forward, air _____ off the bottom of the wing:

the wing pushes on the air. The air therefore _____

_____ (the _____ force).



The speed of the air near the deflection is less than the speed of the flow of air over the wing.

Therefore the _____ than the pressure over the wing.