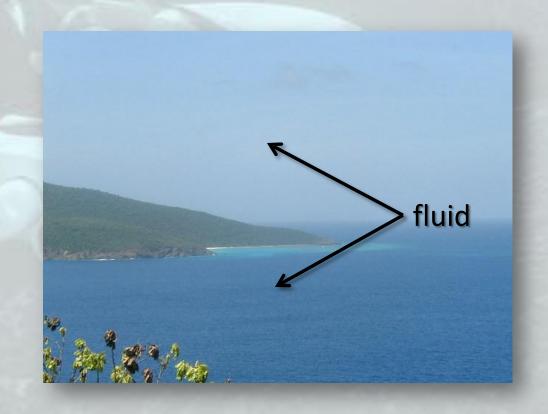
PROSSURG MARINE MARINE PAUL

Mice's a Pum?

- A fluid is anything that flows.
- Fluids include:
 - Liquidsand
 - Gases
- Examples
 - Water
 - o Air



WRITE DOWN

PLUMS Maye Melecit

 Imagine some goldfish in a glass of water on a balance.

The water has weight.

 The weight of the water is pressing down on the fish.

 If you add water, the weight and height of the water increases.

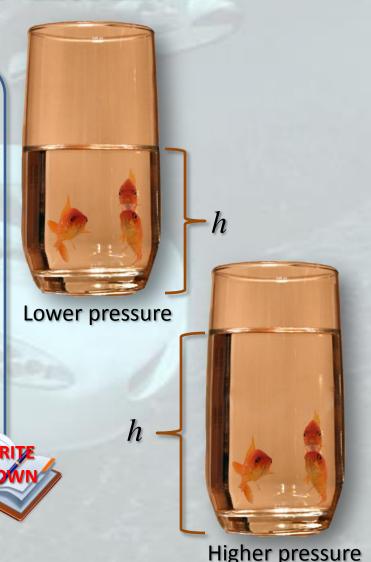
 So does the pressure on the fish!



Pressure and Plum Keick

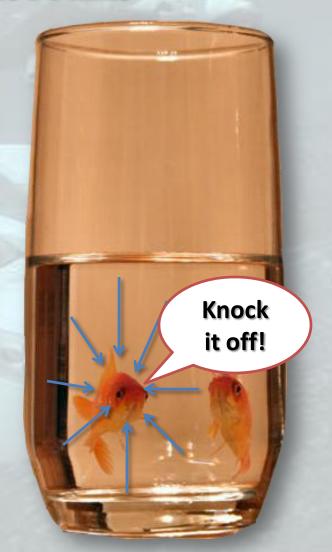
• The higher the column of fluid is, the more it weighs and the greater the pressure it exerts.

 The deeper you go in a fluid, the more the fluid above you weighs, and the greater the pressure is.



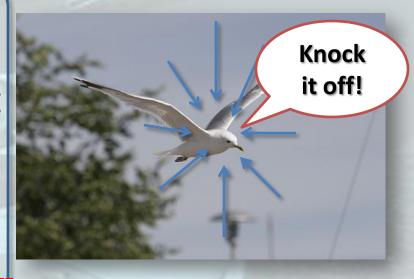
Direction of Pressure

• Pressure in a fluid is exerted in all directions at right angles to the surface it is exerted on.



RUR PRESSURE

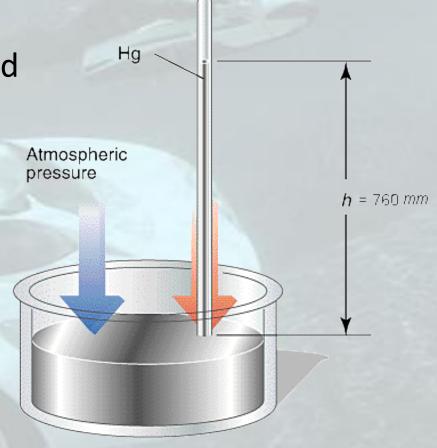
- Atmospheric pressure =
 pressure produced by
 the weight of the blanket
 of air surrounding earth
 (also called air pressure).
- The higher you go in the air, the lower the pressure is.



• Barometer = device for measuring air pressure

Barometer

- Evangelista Torricelli invented the mercury barometer in 1643 by inverting a mercury filled glass tube into a dish of mercury.
- He found that air pressure could support a column of mercury 760 mm high.
- This knowledge was helpful in quantifying the relationship between the pressure on a gas and its volume.



Note: Standard atmospheric pressure is 760 mm Hg = 1 atm = 101.3 kPa